

## Hotspots of mite new species discovery: Trombidiformes (2013–2015)

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### Abstract

This paper reveals the hotspots of new mite discovery through of a survey of type localities of new Trombidiformes species described in two journals (*Systematic & Applied Acarology* and *Zootaxa*) during the last three years (2013–2015). Taxonomically, the 491 new species of the Trombidiformes are highly unevenly distributed among 55 families with top 10 families accounting for over 66% of the total. The Eriophyidae is the top-ranked family. Geographically, these 491 new species are from 55 countries around the world and their distribution among the countries is highly uneven. The majority of these new species (69%) are from the top 10 countries and six of the top ten countries are also megadiversity countries. The top three countries are all from Asia (Iran, China and Malaysia) and they together accounted for over one third of all new species of the Trombidiformes described in the two journals during 2013–2015.

**Key words:** Mites, Trombidiformes, new species, hotspots, type locality, type depository

### Introduction

Discoveries of new species around the world are unevenly distributed; some countries are hotspots for the discovery of new species because they are hotspots of biodiversity (Mittermeier 1988; Gaston 2000) with more undescribed species or a higher concentration of taxonomists (both local and overseas) interested in working on the biodiversity of these regions (or a combination of both). A recent survey of new mite species described during six years (2007–2012) showed that the distribution of 1379 new species are highly unevenly distributed among 92 countries, with the top 10 countries accounting for 62% of the total (Liu *et al.* 2013). This paper is a follow-up of Liu *et al.* (2013) and provides a survey of new species of the Trombidiformes described during the last three years (2013–2015). The methods of Liu *et al.* (2013) are followed here and the patterns of distribution of new species of the order Trombidiformes described during 2013–2015 are summarised. The bulk of this paper presents a list of the type localities and depositories of all new species of the Trombidiformes published in *Zootaxa* and *Systematic & Applied Acarology* (SAA) during the last three years (2013–2015) with the main purpose of exposing newly described species to a wider community as similar papers in the past (*e.g.* Fan 2006; Liu *et al.* 2013; Zhang 2014).

### Abbreviations of zoological collections

ACIAU—Acarology Collection, Islamic Azad University, Fars Science and Research Branch, Marvdasht, Iran.

AFUMI—Acarological Collection, Department of Plant Protection, Faculty of Agriculture, University of Maragheh, Iran.

AMS—Australian Museum, Sydney, Australia.

AMU—Department of Animal Morphology, Adam Mickiewicz University, Poznań, Poland.

ARC-PPRI—Plant Protection Research Institute-Agricultural Research Center - Fruit Acarology Department, Dokki, Cairo, Egypt.

BASU—Collection of Acarology Laboratory, University of Bu-Ali Sina, Hamadan, Iran.

CAS—California Academy of Sciences, San Francisco, California, USA.

CALBS—Collection of the Acarology Laboratory, University of Bu Ali Sina, Hamedan, Iran.

DiSSPA—Department of Soil, Plant and Food Sciences, section of Entomology and Zoology, University of Bari, Italy and at the University of Yüzüncü Yıl, Van, Turkey.

ESALQ/USP—Collection of Departamento de Entomologia e Acarologia, ESALQ – Universidade de São Paulo, Piracicaba, São Paulo, Brazil.

EUE—Acarology Laboratory of Erzincan University, Erzincan, Turkey.

FFSDU—Fundamental Science Laboratory collection, Faculty of Fisheries, Süleyman Demirel University, Egirdir/Isparta, Turkey.

FUE—Research collection of the Biology Department, Fırat University, Elazığ, Turkey.

GUGC—Institute of Entomology, Guizhou University, Guiyang, P.R. China.

GUGX—Guangxi University, Guangxi Zhuang Autonomic Region, P.R. China.

IARI—National Pusa Collection, Division of Entomology, Indian Agricultural Research Institute, New Delhi, India.

IBIW—Research collection of the Institute for Biology of Inland Waters, Borok, Russia.

IBSS—Research collection of the Institute of Biology and Soil Science, Vladivostok, Russia.

IPHCMC—Institut Pasteur, Ho Chi Minh City, Vietnam.

JAZM—Jalal Afshar Zoological Museum, College of Agriculture, University of Tehran, Iran.

KUB—Insect museum of Department of Entomology, Faculty of Agriculture, Kasetsart University, Bangkok 10900, Thailand.

KSU—Acarology Laboratory, Department of Plant Protection, College of Food and Agriculture Sciences, King Saud University, Saudi Arabia.

MAGNT—Museum and Art Gallery of the Northern Territory, Bullocky Point, Fannie Bay, Northern Territory, 0820, Australia.

MNCN—Museo Nacional de Ciencias Naturales, Madrid, Spain.

MNHN—Muséum National d'Histoire naturelle, Paris, France.

MNHP—Museum of the Natural History of Podgorica, Montenegro.

MNHU—Museum of Natural History, Wrocław University, Poland.

MNZ—Museum of New Zealand, Wellington, New Zealand.

MZLQ—Mite Reference Collection, Department of Entomology and Acarology, Escola Superior de Agricultura "Luiz de Queiroz", Brazil.

MZUC—Museo de Zoología Universidad de Concepción, Concepción, Bío Bío Region, Chile.

NBG—Collection of the Nikita Botanical Gardens–National Scientific Center, Yalta, Crimea, Ukraine.

NCA-PPRI—National Collection of Arachnida, PPRI, Pretoria, South Africa.

NIBR—National Institute of Biological Resources, South Korea.

NHMB—Natural History Museum Belgrade, Serbia.

NHMG—Natural History Museum of Geneva, Switzerland.

NHWW—Naturhistorisches Museum, Wien, Austria.

NJAU—Arthropod/Mite Collection of the Department of Entomology, Nanjing Agricultural University, Jiangsu Province, P.R. China.

NMV—Museum Victoria, Melbourne, Australia.

NSMT—Collection of the National Museum of Nature and Science, Tokyo, Japan.

NTM—Museum and Art Gallery of the Northern Territory, Darwin, Australia.

NZAC—New Zealand Arthropod Collection, Landcare Research, Auckland, New Zealand.

NZMC—National Zoological Museum of China, Institute of Zoology, Chinese Academy of Sciences, Beijing, P.R. China.

OSAL—Ohio State University Acarology Collection, Columbus, USA.

PEU—Acari Collection of Departamento de Zoologia e Botânica (DZSJRP), Universidade Estadual Paulista (UNESP), campus de São José do Rio Preto, São Paulo, Brazil.

PPRP—ARC-Plant Protection Research Institute, Pretoria, South Africa.

QM—Queensland Museum, Brisbane, Australia.

RMNH—National Museum of Natural History, Leiden, The Netherlands.

SBUC—Collection of the Acarology Laboratory, Shahid Bahonar University of Kerman, Kerman, Iran.

SHZU—Department of Plant Protection, College of Agriculture, Shihezi University, Shihezi, Xinjiang 832003, P.R. China.

SMF—Senckenberg-Museum Frankfurt, Germany.

SNMB—Slovak National Museum, Bratislava, Slovakia.

TMU—Acarological Collection, Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran.

TUMZ—the acarological collection of the Tyumen State University Museum of Zoology, Tyumen, Russia.

UBS—Acarology Collection, Department of Entomology and Agricultural Zoology, Faculty of Agriculture, University of Belgrade, Serbia.

UFMG-AC—Acarological collection of the Federal University of Minas Gerais, Pampulha, Belo Horizonte—MG, Brazil  
 UMMZ—University of Michigan Museum of Zoology, Ann Arbor, Michigan, USA.  
 UNAM—Acarology Collection of the Universidad Autónoma de México, Mexico City, Mexico.  
 UNESP—Departamento de Zoologia e Botânica, Universidade Estadual Paulista, São José do Rio Preto, State of São Paulo, Brazil.  
 ZAUMCN—Museu de Ciências Naturais, UNIVATES - Centro Universitário, Lajeado, Rio Grande do Sul State, Brazil.  
 USNM—United States Natural History Museum, Smithsonian Institution, Washington, D.C, USA.  
 UTI—Acarological Collection, Department of Plant Protection, Faculty of Agriculture, University of Tabriz, Tabriz, Iran.  
 UWMO—Collection of the Department of Ecology and Environmental Protection, the University of Warmia and Mazury in Olsztyn, Poland.  
 WAM—Western Australian Museum, Perth, Australia.  
 ZISP—Zoological Institute, Russian Academy of Sciences, Saint-Petersburg, Russia.  
 ZIZMUH—Biozentrum Grindel und Zoologisches Museum (formerly: Zoologisches Institut und Museum der Universität Hamburg), Hamburg, Germany.

## Results and discussion

### Trends in the number of new species

*SAA* published 95 new species of the Trombidiformes during 2013–2015 (Table 1). This is about 32 species per year, or about two and a half as many as the average during 2007–2012 (13 species per year). This increase is a reflection of the increase in the number of papers published in this journal during the last three years (Zhang 2014, 2015, 2016). In 2015, the frequency of *SAA* increased to eight issues from four issues (2012–2014) and this caused the sudden increase of new species in 2015. *Zootaxa* published 396 new species of the Trombidiformes during 2013–2015 (Table 1). This is an average of 132 species per year, which is only 8% more than the average during 2007–2012 (122). In comparison, the average number of new Scarcoptiformes species increased 56.9% (Li & Zhang 2016), whereas that of the Parasitiformes decreased 17.5% over the same period (Lam & Zhang 2016).

**TABLE 1.** The comparison of the numbers of new species of the order Trombidiformes described in *SAA* and *Zootaxa* between 2013–2015 and 2007–2012. Data of 2007–2012 from Liu *et al.* (2013).

Year	<i>SAA</i>	<i>ZOOTAXA</i>	Total
2007	12	70	82
2008	6	103	109
2009	9	165	174
2010	12	115	127
2011	21	134	155
2012	19	126	145
2013	19	114	133
2014	21	171	192
2015	55	111	166
<b>Total</b>	<b>174</b>	<b>1109</b>	<b>1283</b>

### Taxonomic distribution of new species

The distribution of 491 new species of the Trombidiformes described during 2013–2015 is uneven at the infraorder level (Table 2). Overall, the proportion of new species of the Eupodina decreased to 23.01% and that of Eleutherengona increased to 38.09% during 2013–2015 when compared to those during 2007–2012 (Table 2). These patterns reflect mainly the increase in the number of some new Eleutherengona during 2013–2015 when four of top ten families are of this group: Harpirhynchidae, Tenuipalpidae, Syringophilidae and Stigmaeidae (Table 3A, B).

The 491 new species of Trombidiformes are unevenly distributed among 55 families (Table 3A). The top 10 families account for over 66% of the total number of species, whereas 26 families (47% of the total) have 1–3 species each. The Eriophyidae is the top-ranked family (Table 3) as it was during 2007–2012 (Liu *et al.* 2013).

**TABLE 2.** The comparison of taxonomic distribution of the new species of the Trombidiformes described in *SAA* and *Zootaxa* between 2013–2015 and 2007–2012. Data of 2007–2012 after Liu *et al.* (2013).

Year	Infraorder	<i>SAA</i>	<i>ZOOTAXA</i>	Total (% of the order Trombidiformes )
2007–2012	Eupodina	14	303	317 (39.97%)
	Anystina	35	265	300 (37.83%)
	Eleutherengona	30	146	176 (22.19%)
2013–2015	Eupodina	46	67	113 (23.01%)
	Anystina	17	174	191 (38.90%)
	Eleutherengona	32	155	187 (38.09%)

**TABLE 3A.** Taxonomic distribution new species of the Trombidiformes from *SAA* and *Zootaxa* among families (2013–2015); N<sub>sp</sub> =number of new species within each paper, N<sub>fam.</sub> =number of families with new species.

N <sub>sp</sub>	N <sub>fam.</sub>	Families of Order Trombidiformes
53	1	Eriophyidae
47	1	Harpirhynchidae
38	1	Hygrobatidae
34	1	Tenuipalpidae
32	1	Syringophilidae
30	1	Aturidae
27	1	Torrenticolidae
23	2	Diptilomiopidae, Trombiculidae
19	1	Stigmaeidae
12	1	Tydeidae
10	1	Unionicolidae
9	2	Cunaxidae, Tetranychidae
8	3	Arrenuridae, Podapolipidae, Pterygosomatidae,
7	1	Scutacaridae
6	2	Erythraeidae, Pygmephoridae
5	5	Bdellidae, Camerobiidae, Hydrachnidae, Microtrombidiidae, Phytoptidae
4	4	Halacaridae, Limnesiidae, Pseudocheylidae, Trombidiidae
3	4	Neopygmephoridae, Pionidae, Pontarachnidae, Tarsonemidae
2	7	Anisitsiellidae, Athienemanniidae, Calyptostomatidae, Hydryphantidae, Johnstonianidae, Oxidae, Sperchontidae
1	15	Achaemenothrombiidae, Allochaetophoridae, Caeculidae, Caligonellidae, Cryptognathidae, Dolichocybidae, Eupalopsellidae, Eupodidae, Frontipodopsidae, Iolinidae, Limnocharidae, Mideopsidae, Paratydeidae, Tarsocheylidae, Teneriffiidae

**TABLE 3B.** The comparison of the numbers of new species in the order Trombidiformes from *SAA* and *Zootaxa* between 2013–2015 and 2007–2012. The classification of the Trombidiformes follows that of Zhang *et al.* (2011). Data of 2007–2012 after Liu *et al.* (2013).

TAXA	2013–2015	2007–2012
Suborder <b>Prostigmata</b>		
Infraorder <b>Eupodina</b>		
Superfamily <b>Bdelloidea</b>		
Family <b>Bdellidae</b>	5	6
Family <b>Cunaxidae</b>	9	36
Superfamily <b>Eriophyoidea</b>		
Family <b>Phytoptidae</b>	5	5
Family <b>Eriophyidae</b>	53	204
Family <b>Diptilomiopidae</b>	23	48
Superfamily <b>Eupodoidea</b>		
Family <b>Eupodidae</b>	1	—
Family <b>Penthalodidae</b>	—	3
Family <b>Rhagidiidae</b>	—	8
Superfamily <b>Halacaroidae</b>		
Family <b>Halacaridae</b>	4	7
Superfamily <b>Tydeidae</b>		
Family <b>Tydeidae</b>	12	—
Family <b>Iolinidae</b>	1	—
Infraorder <b>Anystina</b>		
Hyporder <b>Anystae</b>		
Superfamily <b>Adamystoidea</b>		
Family <b>Adamystidae</b>	—	5
Superfamily <b>Anystoidea</b>		
Family <b>Pseudocheylidae</b>	4	—
Family <b>Teneriffiidae</b>	1	—
Superfamily <b>Caeculoidea</b>		
Family <b>Caeculidae</b>	1	—
Superfamily <b>Paratydeidae</b>		
Family <b>Paratydeidae</b>	1	—
Hyporder <b>Parasitengona</b>		
Superfamily <b>Calypstomatidae</b>		
Family <b>Calypstomatidae</b>	2	1
Superfamily <b>Erythraeidae</b>		
Family <b>Erythraeidae</b>	6	21
Superfamily <b>Eylaoidea</b>		
Family <b>Limnocharidae</b>	1	—
Superfamily <b>Allotanaupodoidea</b>		
Family <b>Allotanaupodidae</b>	—	5

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**TABLE 3B.** (Continued)

TAXA	2013–2015	2007–2012
Superfamily <b>Chyzerioidea</b>		
Family <b>Chyzeriidae</b>	–	1
Superfamily <b>Trombiculoidea</b>		
Family <b>Johnstonianidae</b>	2	
Family <b>Leeuwenhoeekiidae</b>	–	1
Family <b>Trombiculidae</b>	23	19
Superfamily <b>Trombidoidea</b>		
Family <b>Achaemenothrombiidae</b>	1	1
Family <b>Neothrombiidae</b>	–	2
Family <b>Microtrombidiidae</b>	5	3
Family <b>Trombidiidae</b>	4	4
Superfamily <b>Hydryphantoidea</b>		
Family <b>Hydryphantidae</b>	2	3
Family <b>Hydrodromidae</b>	–	6
Family <b>Teratothyadidae</b>	–	1
Superfamily <b>Hydrachnoidea</b>		
Family <b>Hydrachnidae</b>	5	2
Superfamily <b>Lebertioidea</b>		
Family <b>Sperchontidae</b>	2	12
Family <b>Teutonidae</b>	–	1
Family <b>Anisitsiellidae</b>	2	26
Family <b>Lebertiidae</b>	–	1
Family <b>Oxidae</b>	2	
Family <b>Torrenticolidae</b>	27	32
Superfamily <b>Hygrobatoidea</b>		
Family <b>Pontarachnidae</b>	3	4
Family <b>Limnesiidae</b>	4	6
Family <b>Frontipodopsidae</b>	1	–
Family <b>Hygrobatidae</b>	38	39
Family <b>Aturidae</b>	30	44
Family <b>Feltriidae</b>	–	11
Family <b>Unionicolidae</b>	10	8
Family <b>Pionidae</b>	3	–
Superfamily <b>Arrenuroidea</b>		
Family <b>Momoniidae</b>	–	2
Family <b>Mideopsidae</b>	1	2
Family <b>Athienemanniidae</b>	2	1
Family <b>Chappuisididae</b>	–	1
Family <b>Arrenuridae</b>	8	35

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**TABLE 3B.** (Continued)

TAXA	2013–2015	2007–2012
Infraorder <b>Eleutherengona</b>		
Hyporder <b>Raphignathina</b>		
Superfamily <b>Cheyletoidea</b>		
Family <b>Cheyletidae</b>	—	8
Family <b>Harpirhynchidae</b>	47	—
Family <b>Syringophilidae</b>	32	68
Superfamily <b>Myobioidea</b>		
Family <b>Myobiidae</b>	—	3
Superfamily <b>Pterygosomatoidea</b>		
Family <b>Pterygosomatidae</b>	8	3
Superfamily <b>Raphignathoidea</b>		
Family <b>Barbutiidae</b>	—	1
Family <b>Caligonellidae</b>	1	1
Family <b>Camerobiidae</b>	5	7
Family <b>Cryptognathidae</b>	1	1
Family <b>Eupalopsellidae</b>	1	—
Family <b>Raphignathidae</b>	—	1
Family <b>Stigmaeidae</b>	19	20
Superfamily <b>Tetranychoidae</b>		
Family <b>Allochaetophoridae</b>	1	—
Family <b>Linotetraniidae</b>	—	3
Family <b>Tenuipalpidae</b>	34	24
Family <b>Tetranychidae</b>	9	12
Hyporder <b>Heterostigmata</b>		
Superfamily <b>Dolichocyboidea</b>		
Family <b>Dolichocybidae</b>	1	—
Superfamily <b>Pyemotoidea</b>		
Family <b>Caraboacaridae</b>	—	1
Family <b>Pyemotidae</b>	—	2
Superfamily <b>Pygmephoroidae</b>		
Family <b>Pygmephoridae</b>	6	2
Family <b>Scutacaridae</b>	7	1
Family <b>Neopygmephoridae</b>	3	3
Superfamily <b>Tarsocheyletoidea</b>		
Family <b>Tarsocheyletidae</b>	1	—
Superfamily <b>Tarsonemoidea</b>		
Family <b>Podapolipidae</b>	8	8
Family <b>Tarsonemidae</b>	3	5
Superfamily <b>Trochometridioidea</b>		
Family <b>Trochometridiidae</b>	—	1

## Geographic distribution of new species

The 491 new species of the Trombidiformes described during 2013–2015 are from 55 countries around the world and the distribution of these species among the countries is highly uneven (Table 4). The majority of these new species (69%) are from the top 10 countries. It should be noted that (1) six of the top ten countries of new species discovery are also megadiversity countries (Mittermeier 1988); and (2) the top three countries are all from Asia (Iran, China and Malaysia) and they together accounted for over one third of all new species of the Trombidiformes described in *Zootaxa* and *SAA* during 2013–2015. Over 70% of the 55 countries have only 1–3 new species per country. In comparison, this level of patchiness is higher than that of new mite species described during 2007–2012: 62% of new species were from the top 10 countries and 40% of the countries had only 1–3 new species per country (Liu *et al.* 2013).

**TABLE 4.** Geographic distribution of the order Trombidiformes new species from *SAA* and *Zootaxa* (2013–2015) among countries (or regions);  $N_{sp}$ =number of new species within each country (or region),  $N_c$ =number of countries with new species.

$N_{sp}$	$N_c$	Name of countries (regions)
59	1	Iran
57	1	P.R. China*
54	1	Malaysia*
45	1	Australia*
30	1	Russia
29	1	USA*
24	1	Brazil*
15	1	Indonesia*
13	1	Chile
12	1	Turkey
11	1	Vietnam
10	1	Thailand
9	1	Hungary
8	1	Ghana
7	2	Kenya, Saudi Arabia
6	5	New Zealand, Laos, Mexico*, The Netherlands, Ukraine
5	2	Guyana, South Korea
4	3	Argentina, Comoros, Japan
3	8	Canada, Ethiopia, India*, Italy, Nigeria, Peru*, Serbia, Tanzania
2	4	Belarus, Gabon, Slovakia, North America (an unknown locality)
1	17	Cameroon, Dominican Republic, Egypt, Guatemala, Greece, British West Indies, Cambodia, Madagascar*, Macedonia, Mozambique, Oman, Papua New Guinea*, Portugal, South Africa*, Spain, Suriname, Trinidad and Tobago

\*Megadiversity countries (Mittermeier 1988).



## List of type localities and depositories of new species of the Order Trombidiformes in S44 2013–2015

Order Trombidiformes (95 species)

Suborder Prostigmata (95 species)

Infraorder Eupodina (46 species)

Superfamily Bdelloidea (2 species)

Family Bdellidae (1 species)

*Spinibdella tabarii* Paktinat-Saej & Bagheri, 2015 in Paktinat-Saej, Bagheri, Saboori, Seilsepour & Ueckermann, 2015: 704—Holotype male (AFUMI), from the soil and rotten leaves under citrus, Saej-Mahalleh village, Amol city, Mazandaran Province, Iran.

Family Cunaxidae (1 species)

*Armascirus jini* Liu & Guo, 2015 in Liu, Yi & Guo, 2015: 326—Holotype female (GUGC, GZU-GZ-CU-201308001), from Dushan, Guizhou, China (25°48'26"N, 107°30'47"E).

Superfamily Eriophyoidea (42 species)

Family Eriophyidae (26 species)

*Aceria davidmansonii* Xue, Han & Zhang, 2015: 82—Holotype female (NZAC), from *Ulex europaeus*, Mahinapua Scenic Reserve, Ruatapu, Westland, New Zealand (42°47'34"S, 170°54'09"E).

*Aceria heteropappi* Xue & Hong, 2013 in Xue, Sadeghi, Hong & Sinaie, 2013: 44—Holotype female (NJAU, IRAN214.1), from *Heteropappus altaicus*, Ferdowsi University campus, Mashhad, Razavi Khorasan Province, Iran (36°18'00"N, 59°30'60"E).

*Aculops coluteae* Lotfollahi, de Lillo & Haddad, 2015 in Lotfollahi, de Lillo & Irani-Nejad, 2015: 416—Holotype female (UTI, CC-IEA-KN11L-1), from *Colutea cilicica*, Turkish bladder senna, Kandovan village, Osku, Iran (37°47'31"N, 46°14'57"E).

*Aculops consoregalis* Lotfollahi, de Lillo & Haddad, 2015 in Lotfollahi, de Lillo & Irani-Nejad, 2015: 413—Holotype female (UTI, CR-IEA-SD11L-1), from *Consolida regalis*, Larkspur, Royal Knight's-spur, Sardrood, Iran (38°02'02"N, 46°08'24"E).

*Aculops menthafoliae* Lotfollahi, de Lillo & Haddad, 2015 in Lotfollahi, de Lillo & Irani-Nejad, 2015: 414—Holotype female (UTI, ML-IEA-MN11L-1), from *Mentha longifolia*, Mamaghan, Iran (37°50'45"N, 45°59'02"E).

*Aculus portulacus* Wang & El-halawany, 2014 in Wang, El-halawany, Xue & Hong, 2014: 426—Holotype female (NJAU, NJAUAcarEriEgypt7.1), from *Portulaca oleracea*, Al-Imam Mohamed Bin Saud Islamic University, Riyadh Province, Saudi Arabia (24°49'N, 46°42'E).

*Cecidophyopsis rosmarinusis* Wang & El-halawany, 2014 in Wang, El-halawany, Xue & Hong, 2014: 413—Holotype female (NJAU, NJAUAcarEriEgypt6.1), from *Rosmarinus officinalis*, Dereiya, Riyadh Province, Saudi Arabia (24°42'N, 46°37'E).

*Colopodacus cochinchinensis* Zuo, Rajput, Xue & Hong, 2015: 290—Holotype female (NJAU, NJAUAcarEriGD27.1), from *Glycosmis cochinchinensis*, Nanling Mountain, Ruyuan Yao Autonomous County, Guangdong Province, P.R. China (24°54'43"N, 113°03'01"E).

*Colopodacus formosus* Zuo, Rajput, Xue & Hong, 2015: 288—Holotype female (NJAU, NJAUAcarEriGD2.1), from *Leycesteria formosa*, Nanling Mountain, Ruyuan Yao Autonomous County, Guangdong Province, P.R. China (24°54'43"N, 113°03'01"E).

*Epitrimerus saudiarabis* Wang & El-halawany, 2014 in Wang, El-halawany, Xue & Hong, 2014: 420—Holotype female (NJAU, NJAUAcarEriEgypt2.1), from *Phoenix dactylifera*, Al-Imam Mohamed Bin Saud Islamic University, Riyadh Province, Saudi Arabia (24°49'N, 46°42'E).

- Floracarus ruyuanicus* Zuo, Rajput, Xue & Hong, 2015: 293—Holotype female (NJAU, NJAUAcariEriGD10A.1), from *Elaeocarpus dubius*, Nanling Mountain, Ruyuan Yao Autonomous County, Guangdong Province, P.R. China (24°54'43"N, 113°03'01"E).
- Tetra ampelopsis* Han, Rajput, Xue & Hong, 2015: 518—Holotype female (NJAU, NJAUAcariEriHN175.1), from *Ampelopsis* sp., Yuelu Mountain, Changsha City, Hunan Province, P.R. China (28°11'39"N, 112°56'08"E).
- Tetra banqiaoensis* Han, Rajput, Xue & Hong, 2015: 511—Holotype female (NJAU, NJAUAcariEriYN59.1), from *Populus* sp., Banqiao Town, Baoshan City, Yunnan Province, P.R. China (25°07'22"N, 99°09'08"E).
- Tetra heliotropii* Xue & Hong, 2013 in Xue, Sadeghi, Hong & Sinaie, 2013: 50—Holotype female (NJAU, IRAN230.1), from *Heliotropium chorassanicum*, Ferdowsi University campus, Mashhad, Razavi Khorasan Province, Iran (36°18'00"N, 59°31'00"E).
- Tetra nitrariae* Li, Li, Zhang & Xue, 2014: 349—Holotype female (SHZU, Tetra 5.1), from *Nitraria schoheri*, Tacheng city, Xinjiang Uygur Autonomous Region, P.R. China (44°32'21"N, 83°56'32"E).
- Tetra phragmites* Rajput, Zuo, Wang & Hong, 2015: 210—Holotype female (NJAU, NJAUAcariEriGD33B.1), from *Phragmites australis*, Nanling mountain, Ruyuan Yao Autonomous County, Guangdong Province, P.R. China (24°53'50"N, 113°01'18"E).
- Tetra prunus* Rajput, Zuo, Wang & Hong, 2015: 213—Holotype female (NJAU, NJAUAcariEriZ166B.1), from *Prunus* sp., Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°20'37"N, 119°26'24"E).
- Tetra qingyuanensis* Rajput, Zuo, Wang & Hong, 2015: 206—Holotype female (NJAU, NJAUAcariEriZ23B.1), from *Lespedeza* sp., Qingyuan county, Lishui City, Zhejiang Province, P.R. China (27°34'51"N, 119°4'98"E).
- Tetra sativae* Li, Li, Zhang & Xue, 2014: 343—Holotype female (SHZU, Tetra 3.1), from *Medicago sativa*, Xinjiang Uygur Autonomous Region, Fukang county, P.R. China (43°54'04"N, 88°07'03"E).
- Tetra sojae* Rajput, Zuo, Wang & Hong, 2015: 215—Holotype female (NJAU, NJAUAcariEriW75.1), from *Glycine soja*, Guniujiang, Shitai County, Anhui Province, P.R. China (30°08'28"N, 117°47'17"E).
- Tetraspinus lucida* Han, Rajput, Xue & Hong, 2015: 519—Holotype female (NJAU, NJAUAcariEriYN253.1), from *Ligustrum lucidum*, Fugong County, Nujiang Lisu autonomous prefecture, Yunnan Province, P.R. China (26°54'06"N, 98°51'31"E).
- Tetra tianchiensis* Li, Li, Zhang & Xue, 2014: 337—Holotype female (SHZU, SHZUTetra 2.1), from *Sorbus tianschanica*, Xinjiang Uygur Autonomous Region, Fukang city, P.R. China (43°53'28"N, 88°07'11"E).
- Tetra tianschanicae* Li, Li, Zhang & Xue, 2014: 334—Holotype female (SHZU, Tetra 1.1), from *Sorbus tianschanica*, Xinjiang Uygur Autonomous Region, Xinyuan county, P.R. China (43°15'26"N, 84°36'18"E).
- Tetra viciae* Li, Li, Zhang & Xue, 2014: 344—Holotype female (SHZU, Tetra 4.1), from *Vicia ceacca*, Xinjiang Uygur Autonomous Region, Buerjin county, China (48°38'15"N, 87°02'43"E).
- Tetra virga* Han, Rajput, Xue & Hong, 2015: 512—Holotype female (NJAU, NJAUAcariEriYN278.1), from *Rhododendron irroratum*, Fugong County, Nujiang Lisu autonomous prefecture, Yunnan Province, P.R. China (26°33'05"N, 98°55'08"E).
- Tetra vitex* Rajput, Zuo, Wang & Hong, 2015: 217—Holotype female (NJAU, NJAUAcariEriZ156C.1), from *Vitex negundo* var. *cannabifolia*, Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°20'37"N, 119°26'24"E).

Family **Diptilomiopidae** (16 species)

- Acarhis kleinhovia* Tan, Yang, Lai & Wang, 2015: 771—Holotype female (GUGX, GXUEDA1-1.1), from *Kleinhovia hospita*, Baisha County, Hainan Province, P.R. China (109°19'05"E, 18°62'14"N).
- Cheiracus costus* Tan, Yang, Lai & Wang, 2015: 778—Holotype female (GUGX, GXUEDC2-3.1), from *Costus speciosus*, Baisha County, Hainan Province, P.R. China (109°20'11"E, 18°35'17"N).
- Diptacus elegantulum* Rajput, Han, Xue & Hong, 2014: 231—Holotype female (NJAU, NJAUAcariEriZ232.1), from *Acer elegantulum*, Qingliang mountain, Lin'an City, Zhejiang Province, P.R. China (30°02'26"N, 118°56'04"E).

- Diptacus tianmuensis* Rajput, Han, Xue & Hong, 2014: 234**—Holotype female (NJAU, NJAUAcariEriZ166A.1), from *Prunus* sp., Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°20'37"N, 119°26'24"E).
- Diptilomiopus engelhardter* Xue, Cheng & Hong, 2013: 183**—Holotype female (NJAU, NJAUAcariErQ210.1), from *Engelhardtia roxburghiana*, Diaoluo Mountain, Hainan Province, P.R. China (18°43'30"N, 109°52'06"E).
- Diptilomiopus diaoluoicus* Xue, Cheng & Hong, 2013: 178**—Holotype female (NJAU, NJAUAcariErQ228.1), from *Eurya hainanensis*, Diaoluo Mountain, Hainan Province, P.R. China (18°43'30"N, 109°52'06"E).
- Diptilomiopus khatkhaii* Konvipasruang & Chandrapatya, 2015: 310**—Holotype female (KUB, slide no. 1140), from *Oxyceros horridus*, Chaam District, Phetchaburi Province, Thailand (12°47'59"N, 99°58'1"E).
- Diptilomiopus mandongii* Konvipasruang & Chandrapatya, 2015: 307**—Holotype female (KUB, slide no. 561), from *Cordia dichotoma*, Mueang Tak District, Tak Province, Thailand (16°52'54"N, 99°07'25"E).
- Khamroka tomentosi* Konvipasruang & Chandrapatya, 2015: 299**—Holotype female (KUB, slide no. 1114), from *Ellipanthus tomentosus*, Cha-am District, Phetchaburi Province, Thailand (12°47'59"N, 99°58'1"E).
- Konola pingis* Xue, Cheng & Hong, 2013: 188**—Holotype female (NJAU, NJAUAcariErQ198.1), from *Machilus pingii*, Diaoluo Mountain, Hainan Province, P.R. China (18°43'30"N, 109°52'06"E).
- Linacutus cathayensis* Rajput, Han, Xue & Hong, 2014: 228**—Holotype female (NJAU, NJAUAcariEriZ214.1), from *Carya cathayensis*, Qingliang mountain, Lin'an City, Zhejiang Province, P.R. China (30°02'26"N, 118°56'04"E).
- Neorhynacus altingus* Xue, Cheng & Hong, 2013: 185**—Holotype female (NJAU, NJAUAcariErQ213.1), from *Altingia obovata*, Diaoluo Mountain, Hainan Province, P.R. China (18°43'30"N, 109°52'06"E).
- Neorhynacus buettnerus* Tan, Yang, Lai & Wang, 2015: 773**—Holotype female (GUGX, GXUEDN3-1.1), from *Buettneria aspera*, Baisha County, Hainan Province, P.R. China (109°19'05"E, 18°62'14"N).
- Rhynacus acerioides* Flechtmann, 2014 in Flechtmann, Ballari & De Quinteros, 2014: 76**—Holotype female (ESALQ), from *Solanum lorentzii* leaves, Finca Experimental La Posta, Perico, Jujuy Province, Argentina (24°22'51"S, 65°08'22"W).
- Salaya takhronami* Konvipasruang & Chandrapatya, 2015: 304**—Holotype female (KUB, slide no. 588), from *Sisyroplepis muricata*, Salaya Sub-district, Phutthamonthon District, Nakhon Pathom Province, Thailand (13°47'36"N, 100°19'21"E).
- Vimola scutellata* Tan, Yang, Lai & Wang, 2015: 776**—Holotype female (GUGX, GXUEDV1-4.1), from *Memecylon scutellatum*, Bawangling Nature Reserve, Changjing County, Hainan Province, P.R. China (109°19'02"E, 19°06'12"N).

Superfamily **Eupodoidea** (1 species)

Family **Eupodidae** (1 species)

- Pseudopenthaleus tauricus* Khaustov, 2015b: 934**—Holotype female (TUMZ, slide No. AK170394), from moss on soil on the meadow surrounded by Crimean Pines *Pinus pallasiana*, Yalta mountain-forest Nature Reserve, Crimea, Ukraine (44°31'01.5"N, 34°08'33.3"E).

Superfamily **Tydeoidea** (1 species)

Family **Tydeidae** (1 species)

- Brachytydeus persiaensis* Akbari, Haddad & Khanjani, 2015 in Akbari, Irani-Nejad, Khanjani, Arzanlou & Kazmierski, 2015a: 426**—Holotype female (UTI), from the soil under peach trees at vicinity of Shabestar, East Azerbaijan, Iran.

Infraorder **Anystina** (17 species)

Hyporder **Parasitengona** (17 species)

Superfamily **Calypstostomatoidea** (2 species)

Family **Calypstostomatidae** (2 species)

- Calypstostoma giuliae* Haitlinger & Šundić, 2015: 921**—Holotype larva (MNHUWU), from unidentified herbaceous plants, in Bantosey, 20 km north of Siem Reap, Cambodia.
- Calypstostoma marantica* Haitlinger & Šundić, 2015: 925**—Holotype larva (MNHUWU), from unidentified herbaceous plants, in Marante, Sulawesi, Indonesia.

Superfamily **Erythraeoidea** (5 species)

Family **Erythraeidae** (5 species)

*Charletonia terianae* **Hakimitabar, Saboori & Seiedy, 2013: 169**—Holotype larva (JAZM, ARS-20120710-1a), ectoparasitic on Phalangiidae, bark of trees in the botanical garden, Faculty of Agriculture, University of Tehran, Karaj, Alborz Province, Iran (35°48.189'N, 50°59.523'E).

*Erythraeus (Zaracarus) hafezi* **Saboori, Hakimitabar & Mahmoudi, 2014 in Mahmoudi, Saboori, Sari & Hakimitabar, 2014: 80**—Holotype larva (JAZM, ARS-20120208-1a), ectoparasitic on an unidentified Cicadidae, Shiraz city, Fars Province, Iran.

*Moldoustium haitlingeri* **Noei, Saboori & Šundić, 2013 in Noei, Saboori, Šundić, Hajizadeh & Pešić, 2013: 269**—Holotype larva (JAZM, ARS-20130126-1a), from soil, Loshan city, Guilan Province, Iran (36°35'N, 49°32'E).

*Momorangia binaloudensis* **Noei & Saboori, 2015 in Noei, Rabieh & Saboori, 2015: 793**—Holotype larva (JAZM, ARS-20150306-1a), ectoparasitic on a male of *Apamea impedita*, Shirbad, Binaloud Mountain, Khorasan Razavi Province, Iran (36°16'00"N, 59°04'18"E).

*Nagoricanelia salehi* **Kamran & Alatawi, 2015: 199**—Holotype larva (KSU, accession no. ER: 14/30-35), from African foxtail grass, *Cenchrus ciliaris*, Rudat Al-Khuraim, Riyadh, Saudi Arabia (25°21.251'N, 47°17.837'E).

Superfamily **Trombidoidea** (6 species)

Family **Microtrombidiidae** (4 species)

*Atractothrombium amirkabiri* **Noei, Saboori & Hajizadeh, 2015b: 658**—Holotype larva (JAZM, ARS-20141105-1a), from soil in a forest close to a stream, Gijave village, Asalem city, Guilan Province, Iran (37°42.077'N, 48°54.077'E).

*Ettmuelleria zahediae* **Noei, Saboori & Hajizadeh, 2015b: 662**—Holotype larva (JAZM, ARS-20141105-2a), from soil in a forest close to a stream, Roudsar city, Guilan Province, Iran (37°01.647'N, 50°15.376'E).

*Microtrombidium fumani* **Noei, Saboori & Hajizadeh, 2015b: 665**—Holotype larva (JAZM, ARS-20141105-3a), from soil in a forest close to a stream, Masouleh city, Guilan Province, Iran (37°08.808'N, 48°59.254'E).

*Milandanielia harsitensis* **Adil & Sevsay, 2015 in Adil, Sevsay, Doğan & Dilkaraoğlu, 2015: 651**—Holotype adult (EUE), from harşit valley, Giresun Province, Turkey (40°46'45"N, 38°59'36"E).

Family **Trombidiidae** (2 species)

*Paratrombium farnazae* **Noei, Saboori & Hajizadeh, 2015a: 316**—Holotype larva (JAZM, ARS-20130517-1a), from soil in a forest, in Noghlebar village, Roodbar city, Iran (36°57.39'N, 49°32.65'E).

*Podothrombium zlatarum* **Saboori, Pešić & Šundić, 2015: 122**—Holotype larva (JAZM, ARS-20140731-1a), from herbaceous plants, in Zlatar Mountain, near Nova Varoš, Serbia.

Superfamily **Hydryphantoidea** (1 species)

Family **Hydryphantidae** (1 species)

*Trichothyas anatolica* **Boyaci & Gülle, 2014: 161**—Holotype female (FFSDU), from a shallow spring with bottom completely covered by algae, Şarkıkaraağaç, Isparta, Turkey (38°7.281'N, 31°26.860'E).

Superfamily **Hygrobatoidea** (2 species)

Family **Hygrobatidae** (2 species)

*Atractides asiaticus* **Pešić & Smit, 2015a: 784**—Holotype male (RMNH, ZMA.ACA.P 32808), from stream near Ban Khoom, Doi Ang Kang, Thailand (19°56.905'N, 99°03.938'E).

*Atractides inthanonensis* **Pešić & Smit, 2015a: 785**—Holotype male (RMNH), from stream downstream of Siriphum Waterfall, Doi Inthanon NP, Thailand (18°31.532'N, 98°39.091'E).

Superfamily **Arrenuroidea** (1 species)

Family **Arrenuridae** (1 species)

*Thoracophoracarus koreanus* **Smit & Pešić, 2014: 432**—Holotype male (NIBR), from pool near stream, 1.7 km from



Jiksopolpol falls, 0.6 km from Naebyeansan Info Center (near Silsung temple), Naebyeansan National Park, Ne myeon Mt, CR10, South Korea ( 35°64'65.978"N, 126°58'62.285"E).

Infraorder **Eleutherengona** (32 species)

Hyporder **Raphignathina** (23 species)

Superfamily **Raphignathoidea** (11 species)

Family **Caligonellidae** (1 species)

*Neognathus sinaei* Khanjani & Samadpour, 2014 in Samadpour, Khanjani & Asalifayaz, 2014: 152—Holotype female (BASU), from soil and litter under Russian olive trees, *Elaeagnus angustifolia*, Mallayer vicinity, Hamedan Province, Iran.

Family **Cryptognathidae** (1 species)

*Favognathus farshchiani* Jafari, Bagheri & Saboori, 2014: 357—Holotype female (JAZM, ARS-20140613-1a), from soil under berry, apricot and elm trees in various orchards and green spaces around Isfahan, Isfahan Province, Iran.

Family **Eupalopsellidae** (1 species)

*Eupalopsellus kermaniensis* Mahdavi & Farzan, 2013 in Mahdavi, Asadi & Farzan, 2013: 191—Holotype female (SBUC), from *Artemisia* sp., Bongan, Baft, Kerman Province, Iran.

Family **Stigmaeidae** (8 species)

*Cheylostigmaeus mahvashae* Khanjani, Firoozfar & Mirmoayedi, 2013: 349—Holotype male (BASU), from soil under canopy of apricot trees, *Prunus armeniaca*, Rijab valley, Sarpolzohab, Kermanshah Province, Iran (34°9'–34°46"E, 45°53'–46°35"N).

*Cheylostigmaeus variatus* Doğan, Dilkaraoğlu & Fan, 2015 in Doğan, Dilkaraoğlu, Fan, Sevsay, Erman & Adil, 2015: 804—Holotype male (EUE), from hydrous grassy soil, Ekşisu Marsh, Turkey (39°43'52.9"N, 39°37'26.9"E).

*Eryngiopus anatolicus* Doğan, Dilkaraoğlu & Fan, 2015 in Doğan, Dilkaraoğlu, Fan, Erman, Sevsay & Adil, 2015: 438—Holotype female (EUE), from litter under *Astragalus* sp., Vauk highway crossing, Gümüşhane, Turkey (40°22'01"N 39°49'20"E).

*Eustigmaeus ueckermanni* Bagheri, 2013 in Bagheri & Beyzavi, 2013: 33—Holotype female (ACIAU), from the soil and humus under oak trees *Quercus brantii*, south of Kamfiruz region, Fars Province, Iran.

*Paraneognathus iranicus* Bagheri & Paktinat-Saeed, 2015 in Bagheri, Paktinat-Saeed, Saboori & Ahaniazad, 2015: 335—Holotype female (AFUMI), from the soil and humus under citrus trees, Bahnamir region, Babolsar city, Mazandaran Province, Iran.

*Stigmaeus tolstikovi* Khaustov, 2015c: 684—Holotype female (TUMZ, slide No. AK151114S), from rotten log of poplar (*Populus nigra*), Tyumen, Tyumen Province, Russia (57°09'52.3"N, 65°31'01.6"E).

*Storchia elhamae* Hassanzadeh, Khanjani, Safaralizadeh & Mirfakhraie, 2013: 354—Holotype female (BASU), from soil covered with grass, Mahabad vicinity, western Azerbaijan Province, Iran (36°51'12"N, 45°17'13"E).

*Zetzellia camphorae* Negm, Johann, Ferla & Amano, 2015: 964—Holotype female (KUM), from *Cinnamomum camphora*, Kitashirakawaoiwake-cho, Kyoto-shi, Kyoto prefecture, Japan (28°34'N, 83°98'E).

Superfamily **Tetranychioidea** (12 species)

Family **Tenuipalpidae** (8 species)

*Acaricis urigersoni* Xu & Zhang, 2013: 358—Holotype female (NZAC), from Gahnia lacera, Kepa Reserve, Auckland, New Zealand.

*Aegyptobia kermaniensis* Farzan, 2015 in Farzan & Asadi, 2015: 956—Holotype female (SBUC), from *Berberis vulgaris*, Kuhpayeh, Kerman-Kerman Province, Iran (28°58'N, 57°37'E).

*Aegyptobia khanjanii* Farzan & Asadi, 2013: 36—Holotype female (SBUC), from *Astragalus* sp., Jabalbarez, Jiroft town, Kerman Province, Iran (27°21'N, 57°42'E).

*Dolichotetranychus riyadhensis* Alatawi & Kamran, 2015 in Alatawi, Kamran & Negm, 2015: 826—Holotype female (KSU), from *Cynodon dactylon*, Raudat Khuraim, Riyadh, Saudi Arabia (25°21.251'N, 47°17.837'E).

***Krugeria fuzhouensis* Xu & Fan, 2015 in Xu, Fan & Huang, 2015: 88**—Holotype female (NZMC), from *Pterospermum heterophyllum*, Shangxiadian Road, Fujian Agriculture and Forestry University, Cangshan district, Fuzhou city, Fujian Province, China (119°14'2.89"E, 26°5'14.98"N).

***Phytoptipalpus phoenicis* Alatawi & Kamran, 2015 in Alatawi, Kamran & Negm, 2015: 817**—Holotype female (KSU), from leaves and fiber of *Phoenix dactylifera*, Al-Imam Muhammad bin Saud Islamic University, Riyadh Province, Saudi Arabia (24°48'77"N, 46°42'73"E).

***Tenuipalpus toropi* Castro, Ramos & Feres, 2015 in De Castro, Ramos, Feres & Ochoa, 2015: 340**—Holotype female (PEU, n. 9540), from *Sapium glandulatum*, Paulo de Faria, São Paulo, Brazil (19°55'S, 49°31'W).

***Tenuipalpus zahirii* Khanjani & Seeman, 2013 in Khanjani, Alvandy, Khanjani & Seeman, 2013: 392**—Holotype female (CALBS), from hawthorn leaves, *Crataegus monogyna*, Simin, Hamedan Province, Iran (34°41'N, 48°35'E).

Family **Tetranychidae** (4 species)

***Mononychellus cedrelae* Flechtmann & Queiroz, 2015: 834**—Holotype female (MZLQ), from the underside of bronzed leaves of *Cedrela fissilis*, Campus EMBRAPA, Colombo, Paraná, Brazil (25°16'06"S, 9°32'0"W).

***Schizotetranychus iraniensis* Mahdavi & Asadi, 2015a: 675**—Holotype male (SBUC), from *Prunus cerasus*, Khabr-Kerman Province, Iran (28°48'N, 56°20'E).

***Tetranychus iraniensis* Mahdavi & Ueckermann, 2013 in Mahdavi, Asadi, Ueckermann & Farzan, 2013: 246**—Holotype female (SBUC), from *Salsola* sp., Manujan-Kerman Province, Iran (27°19'N, 57°29'E).

***Tetranychopsis iranensis* Khanjani, Khanjani & Razmjou, 2015: 119**—Holotype female (BASU), from hazelnut trees, *Corulus avellana*, Fondoghlo National Park Jungle, Ardabil, Ardabil Province, Iran (38°26'E, 48°34'N).

Hyporder **Heterostigmata** (9 species)

Superfamily **Dolichocyboidea** (1 species)

Family **Dolichocybidae** (1 species)

***Dolichomotes sinuspersicus* Mortazavi & Hajiqanbar, 2015 in Mortazavi, Hajiqanbar & Kamali, 2015: 446**—Holotype female (TMU, AM20130314), from the elytra of a bostrichid beetle *Sinoxylon pugnax*, vicinity of Minab city, Hormozgan Province, Iran (27°19'09"N, 57°00'15"E).

Superfamily **Tarsonemoidea** (8 species)

Family **Podapolipidae** (8 species)

***Cassidopolipus physonota* Husband & OConnor, 2014: 440**—Holotype female (UMMZ), from the wild olive tortoise beetle, *Physonota alutacea*, 2.41km SE El Cameron, 610 m Oaxaca, Mexico (15°53'34"N, 96°58'33"E).

***Eutarsopolipus americanus* Husband & Husband, 2013: 57**—Holotype female (UMMZ, RWH200309-1), from *Chlaenius praesinus*, Silver Lake State Park, Oceana County, Michigan, USA.

***Eutarsopolipus asiaticus* Husband & Kurosa, 2013: 67**—Holotype female (NSMT, Kurosa No. 21453-5), from *Chlaenius costiger*, Sato, Mikura-jima Is., Izu Iss., Tokyo, Japan.

***Eutarsopolipus earnshawi* Constantine & Seeman, 2014: 89**—Holotype female (QM, # IQ-1000-D), from *Cratoferonia phylarchus*, southeast Queensland, Lamington National Park, rainforest, Australia (28°15'43"S, 153°10'12"E).

***Eutarsopolipus lambkinae* Constantine & Seeman, 2014: 96**—Holotype female (QM), from *Notonomus angustibasis*, southeast Queensland, Lamington National Park, rainforest, Australia (28°14'17"S, 153°08'42"E).

***Eutarsopolipus obrieni* Husband & Husband, 2015: 972**—Holotype female (UMMZ, RWH220310-10), from *Platynus darlingtoni*, vicinity of Cinchona, St. Andrew Parish, Jamaica, British West Indies.

***Eutarsopolipus rutherfordae* Constantine & Seeman, 2014: 104**—Holotype female (QM), from *Trichosternus subvirens*, southeast Queensland, Australia.

***Simalurapolipus hiraii* Kurosa & Husband, 2013: 260**—Holotype female (NSMT, 4940-8), from *Simaluracoerulea*, Hirayama, Aoi-ku, Shizuoka-shi, Shizuoka Prefecture, Japan.

## List of type localities and depositories of new species of the Order Trombidiformes in ZOOTAXA 2013–2015

Superorder **Acariformes** (396 species)

Order **Trombidiformes** (396 species)

Suborder **Prostigmata** (396 species)

Infraorder **Eupodina** (67 species)

Superfamily **Bdelloidea** (12 species)

Family **Bdellidae** (4 species)

*Bdella farabii* Paktinat-Saej & Bagheri, 2015 in Paktinat-Saej, Bagheri, Saboori & Ahaniazad, 2015: 526—Holotype female (UMAC), from soil and rotten leaves under citrus trees, Saej-Mahalleh village, Amol city, Mazandaran Province, Iran.

*Biscirus iranensis* Paktinat-Saej & Bagheri, 2015 in Paktinat-Saej, Bagheri, Saboori & Ahaniazad, 2015: 523—Holotype male (UMAC), from the soil and rotten leaves under citrus trees, Amreh village, Sari city, Mazandaran Province, Iran.

*Cyta kurdistanicus* Eghbalian, Khanjani & Ueckermann, 2014 in Eghbalian, Khanjani, Safaralizadeh & Ueckermann, 2014: 575—Holotype female (BASU), from soil covered with grass and litter under wild almond, *Amygdalus lycioides*, Sirvan river, Palangan village, Kurdistan Province, Iran (35°03.7'N, 46°35.97'E).

*Cyta leliae* Eghbalian, Khanjani & Ueckermann, 2014 in Eghbalian, Khanjani, Safaralizadeh & Ueckermann, 2014: 571—Holotype male (BASU), from soil and litter under grass and oak trees, *Quercus brantii*, “Sirvan river bank”, Palangan village, Kurdistan Province, Iran (35°03.7'N, 46°35.97'E).

Family **Cunaxidae** (8 species)

*Armascirus denheyeri* Kalúz, Ermilov & Vrabec, 2014: 243—Holotype female (SNMB), from Hunli env., Arunachal Pradesh, India (28°19'32"N, 95°57'31"E).

*Armascirus fendai* Kalúz & Vrabec, 2013: 144—Holotype female (SNMB), from soil with grass roots on sands, Nature Reserve Abrod—*Molinietum caeruleae*, Veľké Leváre village vicinity, Slovakia (48°31'57"N, 17°00'21"E).

*Armascirus masani* Kalúz & Vrabec, 2013: 150—Holotype male (SNMB), from soil with grass roots, mountain meadow, Nová Polianka village vicinity, High Tatras Mts., Slovakia (49°07'17"N, 20°09'46"E).

*Armascirus orientalis* Kalúz, Ermilov & Vrabec, 2014: 248—Holotype female (SNMB), from samples of bird's nest fungi *Cyathus* sp., lowland Lagerstroemia-dominated forest on dark loamy soil, Dong Nai Biosphere Reserve, Vietnam (11°25'N, 107°25'E).

*Bonzia flechtmanni* Rocha, Rodrigues & Ferla, 2015: 62—Holotype female (ESALQ), from the leaf litter on Atlantic *Araucaria* forest, Centro de Pesquisas e Conservação da Natureza Pró-Mata, São Francisco de Paula, Rio Grande do Sul, Brazil (29°29'23.70"S, 50°12'16.30"W).

*Dactyloscirus multiscutus* Rocha, Rodrigues & Ferla, 2015: 68—Holotype female (ESALQ), from the leaf litter on Atlantic rainforest, Centro de Pesquisas e Conservação da Natureza Pró-Mata, São Francisco de Paula, Rio Grande do Sul, Brazil (29°28'31.40"S, 50°9'58.30"W).

*Neocunaxoides promatae* Rocha, Rodrigues & Ferla, 2015: 60—Holotype female (ESALQ), from the leaf litter on Atlantic *Araucaria* forest, Centro de Pesquisas e Conservação da Natureza Pró-Mata São Francisco de Paula, Rio Grande do Sul, Brazil (29°29'4.20"S, 50°13'15.16"W).

*Scutopalus tomentosus* Rocha, Skvarla & Ferla, 2013: 40—Holotype female (ESALQ/USP), from *Plantago tomentosa*, Dois Lajeados, Rio Grande do Sul State, Brazil.

Superfamily **Eriophyoidea** (39 species)

Family **Phytoptidae** (5 species)

*Mackiella reclinata* Chetverikov & Craemer, 2014 in Chetverikov, Craemer, Vishnyakov & Sukhareva, 2014: 271—Holotype female (NCA-PPRI, slide #76-13), from *Phoenix reclinata*, National Botanical Garden, Pretoria, South Africa (25°44'18.92"S, 28°28'16.98"E).

*Novophytoptus luzulis* Chetverikov, 2015: 493—Holotype female (ZISP, #24-13), from *Luzula pilosa*, Plesetsk, Arkhangelsk Prov., Russia (62°43'51"N, 40°17'5"E).

*Novophytoptus maritimus* Chetverikov, 2015: 497—Holotype female (ZISP, #u1/2-12), from *Juncus maritimus*, Kirillovka, Zaporozhye Prov., Ukraine (46°18'32"N, 35°18'30"E).

*Paraphytoptus intybi* Denizhan, Monfreda, Lillo & Çobanoğlu, 2015: 33—Holotype female (DiSSPA, #3008), from *Cichorium intybus*, Eğmir lake, Ankara, Turkey (39°49'29"N 32°50'05"E).

*Phytoptus albae* Denizhan, Monfreda, Lillo & Çobanoğlu, 2015: 7—Holotype female (DiSSPA, #2764), from *Populus alba*, Çamlidere, Turkey (40°31'29"N, 32°29'24"E).

#### Family Eriophyidae (27 species)

*Aceria lobolinguae* Lotfollahi & de Lillo, 2014 in Lotfollahi, Irani-Nejad & de Lillo, 2014: 81—Holotype female (UTI, EA-IEA-AR11L-1), from *Elaeagnus angustifolia*, Azarshahr, Iran (37°46'24"N, 45°57'20"E).

*Aceria tripuraensis* Menon, Joshi & Ramamurthy, 2014: 560—Holotype female (IARI), from *Hibiscus macrophyllus*, Ishaan Chandranagar, Agartala, Tripura, India (23°45'55"N, 91°14'33"E).

*Aceria utzkae* Vidović, 2014: 489—Holotype female (UBS and NHMB\*, slide # 204/8), from *Carlina acanthifolia*, Goč, Serbia (43°33.519'N, 20°44.243'E).

*Aceria virgatae* Lotfollahi, Irani-Nejad, Khanjani, Moghadam & De Lillo, 2013: 354—Holotype female (UTI, CV-IEA-MH10L-1), from *Centaurea virgata*, Maragheh countryside, Iran (37°25'35"N, 46°14'38"E).

*Aceria xeranthemis* Lotfollahi, Irani-Nejad, Khanjani, Moghadam & De Lillo, 2013: 354—Holotype female (UTI, XS-IEA-TZ11L-1), from *Xeranthemum squarrosum*, Tabriz countryside, Iran (38°01'13"N, 46°25'09"E).

*Aculops huzhongensis* Xue, Guo & Hong, 2013: 77—Holotype female (NJAU, NJAUAcariEriH30-1), from *Salix* sp., Huzhong District, Heilongjiang Province, P.R. China (52°01'44"N, 123°35'44"E).

*Aculus castriferrei* Ripka, 2014: 265—Holotype female (NFCSSO, slide # 1315a), from *Agrimonia eupatoria*, Mesteri, Vas County, Hungary (47°14'6.155"N, 17°5'15.806"E).

*Aculus huzhongsalixus* Xue, Guo & Hong, 2013: 83—Holotype female (NJAU, NJAUAcariEriH30-2), from *Salix* sp., Huzhong District, Heilongjiang Province, P.R. China (52°01'44"N, 123°35'44"E).

*Calepitrimerus flexuosus* Xue, Guo & Hong, 2013: 37—Holotype female (NJAU, NJAUAcariEriH52), from *Spiraea flexuosa*, Yichun City, Heilongjiang Province, P.R. China (47°43'36"N, 128°55'12"E).

*Calepitrimerus maximowiczii* Xue, Guo & Hong, 2013: 40—Holotype female (NJAU, NJAUAcariEriH34), from *Crataegus maximowiczii*, Huzhong District, Heilongjiang Province, P.R. China (52°01'44"N, 123°35'44"E).

*Calepitrimerus pilosus* Xue, Guo & Hong, 2013: 42—Holotype female (NJAU, NJAUAcariEriH22), from *Agrimonia pilosa*, Jiagedaqi, Heilongjiang Province, P.R. China (50°24'27"N, 124°06'43"E).

*Calepitrimerus yichunensis* Xue, Guo & Hong, 2013: 49—Holotype female (NJAU, NJAUAcariEriH62), from *Sorbaria sorbifolia*, Harbin City, Heilongjiang Province, P.R. China.

*Cupacarus oxyphyllus* Xue, Guo & Hong, 2013: 50—Holotype female (NJAU, NJAUAcariEriH49), from *Euonymus oxyphyllus*, Yichun City, Heilongjiang Province, P.R. China (47°43'36"N, 128°55'12"E).

*Eriocaenus ramosissimi* Petanović & Amrine, 2015 in Petanović, Amrine, Chetverikov & Cvrković, 2015: 58—Holotype female (UBS, slide #1431/1), from *Equisetum ramosissimum*, Zemun, Altina, Serbia (44°50'26.3"N, 20°21'34.8"E).

*Epitrimerus sambucus* Xue, Guo & Hong, 2013: 54—Holotype female (NJAU, NJAUAcariEriH70), from *Sambucus williamsii*, Harbin City, Heilongjiang Province, P.R. China.



- Epitrimerus wuyingensis* Xue, Guo & Hong, 2013: 59—Holotype female (NJAU, NJAUAcariEriH47-2), from *Acer* sp., Wuying, Yichun City, Heilongjiang Province, P.R. China (47°43'36"N, 128°55'12"E).
- Longisolenidionus amurensis* Xue, Guo & Hong, 2013: 68—Holotype female (NJAU, NJAUAcariEriH54), from *Tilia amurensis*, Yichun City, Heilongjiang Province, P.R. China (47°43'36"N, 128°55'12"E).
- Phyllocoptes jiagedaquiensis* Xue, Guo & Hong, 2013: 73—Holotype female (NJAU, NJAUAcariEriH7), from *Cunninghamia* sp., Jiagedaqi, Heilongjiang Province, P.R. China (50°24'27"N, 124°06'43"E).
- Phyllocoptura juniperiana* Han, Xue & Hong, 2013: 260—Holotype female (NJAU, NJAUAcariEriYN69.1), from *Juniperus chinensis*, Cangshan, Dali City, Yunnan Province, P.R. China (25°41'47"N, 100°08'28"E).
- Proiectus granularpro* Han, Xue & Hong, 2013: 253—Holotype female (NJAU, NJAUAcariEriYN61.1), from *Pinus tabuliformis*, Erhai Park, Dali City, Yunnan Province, P.R. China (25°41'47"N, 100°08'28"E).
- Proiectus rodgeseta* Han, Xue & Hong, 2013: 249—Holotype female (NJAU, NJAUAcariEriYN68.1), from *Pinus armandii*, Cangshan, Dali City, Yunnan Province, P.R. China (25°41'47"N, 100°08'28"E).
- Shevtchenkella huzhongiensis* Xue, Guo & Hong, 2013: 26—Holotype female (NJAU, NJAUAcariEriH33), from *Ulmus davidiana*, Huzhong District, Heilongjiang Province, P.R. China (52°01'44"N, 123°35'44"E).
- Shevtchenkella jingboicus* Xue, Guo & Hong, 2013: 30—Holotype female (NJAU, NJAUAcariEriH47-1), from *Acer* sp., Yichun City, Heilongjiang Province, P.R. China (47°43'36"N, 128°55'12"E).
- Tetra angelica* Xue, Guo & Hong, 2013: 94—Holotype female (NJAU, NJAUAcariEriH66), from *Angelica* sp., Jiagedaqi, Heilongjiang Province, P.R. China (50°24'27"N, 124°06'43"E).
- Tetra jiagedaqui* Xue, Guo & Hong, 2013: 100—Holotype female (NJAU, NJAUAcariEriH16), from *Lespedeza* sp., Jiagedaqi, Heilongjiang Province, P.R. China (50°24'27"N, 124°06'43"E).
- Vittacus cannabus* Xue, Guo & Hong, 2013: 107—Holotype female (NJAU, NJAUAcariEriJ7), from *Cannabis sativa*, Baicheng City, Jilin Province, P.R. China.
- Vittacus mandshurica* Xue, Guo & Hong, 2013: 106—Holotype female (NJAU, NJAUAcariEriH23), from *Corylus sieboldiana*, Jiagedaqi, Heilongjiang Province, P.R. China (50°24'27"N, 124°06'43"E).

Family **Diptilomiopidae** (7 species)

- Diptacus coreanus* Rajput, Li, Xue & Hong, 2015: 340—Holotype female (NJAU, NJAUAcariEriZ163.1), from *Litsea coreana*, from Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°20'37"N, 119°26'24"E).
- Neorhynacus camphoratus* Rajput, Li, Xue & Hong, 2015: 342—Holotype female (NJAU, NJAUAcariEriZ198A), from *Cinnamomum camphora*, from Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°22'07"N, 119°26'04"E).
- Peralox dentatis* Xue, Guo & Hong, 2013: 113—Holotype female (NJAU, NJAUAcariEriH63-1), from *Ulmus* sp., Harbin City, Heilongjiang Province, P.R. China.
- Rhinophytoptus nemalobos* Lotfollahi & de Lillo, 2014 in Lotfollahi, Irani-Nejad & de Lillo, 2014: 79—Holotype female (UTI, PD-IEA-KN11L-1), from *Prunus domestica*, Kandovan village, Osku, Iran (37°47'31"N, 46°14'57"E).
- Rhinotergum boehmerius* Rajput, Li, Xue & Hong, 2015: 345—Holotype female (NJAU, NJAUAcariEriZ185.1), from *Boehmeria gracilis*, from Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°22'07"N, 119°26'04"E).
- Rhyncaphytoptus cathayensis* Rajput, Li, Xue & Hong, 2015: 348—Holotype female (NJAU, NJAUAcariEriZ213A.1), from *Carya cathayensis*, from Qingliang mountain, Lin'an City, Zhejiang Province, P.R. China (30°02'26"N, 118°56'04"E).
- Rhyncaphytoptus lanceolatus* Rajput, Li, Xue & Hong, 2015: 352—Holotype female (NJAU, NJAUAcariEriZ148.1), from *Cunninghamia lanceolata*, from Tianmu mountain, Lin'an City, Zhejiang Province, P.R. China (30°2'37"N, 119°26'24"E).

Superfamily **Halacaroidae** (4 species)

Family **Halacaridae** (4 species)

- Halacarus omului* Pepato & Da Silveira, 2013: 592—Holotype female (UFMG-AC1200163), from *Sargassum cymosum*, São Paulo state, Lázaro Beach, Ubatuba, Brazil.

***Halacarus todaroi* Pepato & Da Silveira, 2013: 597**—Holotype female (UFMG-AC1200178), from shell debris, Itassucê Islet, Barequeçaba Beach, Brazil (23°50'S, 45°27'W).

***Rhombognathus abirus* Pepato & Da Silveira, 2015: 501**—Holotype female (UFMG-AC1200653), from algae associated to Rhizophora mangle, Fazenda River, municipality of Ubatuba, São Paulo State, Brazil (23°21'55.5"S, 44°50'18.6"W).

***Rhombognathus picinguabensis* Pepato & Da Silveira, 2015: 507**—Holotype female (UFMG-AC1200645), from algae associated to Rhizophora mangle and Avicenia schaueriana, Fazenda River, municipality of Ubatuba, São Paulo State, Brazil (23°21'385"S, 44°50'385"W).

Superfamily Tydeoidea (12 species)

Family Tydeidae (11 species)

***Lorryia bathorii* Ripka & Kazmierski, 2013 in Ripka, Laniecka & Kazmierski, 2013: 24**—Holotype male (AMU, AK H-119), from *Tilia cordata*, Zala County, Keszthely, Hungary.

***Lorryia hungarica* Laniecka & Ripka, 2013 in Ripka, Laniecka & Kazmierski, 2013: 14**—Holotype female (AMU, AK H-027), from *Populus x canescens*, Óbuda, Budapest III, Hungary.

***Lorryia sanctikingai* Ripka & Laniecka, 2013 in Ripka, Laniecka & Kazmierski, 2013: 19**—Holotype female (AMU, AK H-066), from *Forsythia suspense*, Kíspeszt, Budapest XIX, Hungary.

***Neopronematus solani* Laniecka & Kazmierski, 2013: 34**—Holotype female (AMU, AK H-126), from *Solanum dulcamara*, Törökvész, Budapest II, Hungary.

***Prelorryia labrusca* Silva, Cunha & Ferla, 2014 in Silva, Cunha, Rocha, Panou & Ferla, 2014: 506**—Holotype female (ESALQ), from *Vitis labrusca*, Boqueirão do Leão County, State of Rio Grande do Sul, Brazil.

***Tydeus clavimaculatus* Kazmierski, 2013 in Ripka, Laniecka & Kazmierski, 2013: 10**—Holotype Tritonymph (AMU, AK H-295), from *Aesculus pavia*, Veszprém County, Zirc, Hungary.

***Tydeus manoi* Silva, Rocha & Ferla, 2014 in Silva, Cunha, Rocha, Panou & Ferla, 2014: 506**—Holotype female (ESALQ), from *Plantago tomentosa*, Candiota County, State of Rio Grande do Sul, Brazil.

***Tydeus martae* Kazmierski, 2013 in Ripka, Laniecka & Kazmierski, 2013: 5**—Holotype female (AMU, AK H-024), from *Hordeum vulgare*, Jász-Nagykun-Szolnok County, Szolnok, Hungary.

***Tydeus narolicatus* Kazmierski & Ripka, 2013 in Ripka, Laniecka & Kazmierski, 2013: 2**—Holotype female (AMU, AK H-337), from *Acer saccharinum*, Vas County, Mesteri, Hungary.

***Tydeus riopardensis* Silva, Cunha & Ferla, 2014 in Silva, Cunha, Rocha, Panou & Ferla, 2014: 503**—Holotype female (ZAUMCN), from *Vitis labrusca*, Bordeaux variety, Boqueirão do Leão County, State of Rio Grande do Sul, Brazil.

***Tydeus shabestariensis* Akbari, Haddad & Kazmierski, 2015 in Akbari, Irani-Nejad, Khanjani, Arzanlou & Kazmierski, 2015b: 265**—Holotype female (UTI), from the soil under apple orchards, vicinity of Shabestar city, East Azerbaijan, Iran.

Family Iolinidae (1 species)

***Neopronematus kamalii* Darbemamieh & Hajiqanbar, 2015 in Darbemamieh, Hajiqanbar, Khanjani & Kazmierski, 2015: 236**—Holotype female (TMU), from apricot leaves, Sechek, Kermanshah, Iran (34°21'01.76"N, 47°18'01.38"E).

Infraorder Anystina (174 species)

Hyporder Anystae (7 species)

Superfamily Anystoidea (5 species)

Family Pseudocheylidae (4 species)

***Anoplocheylus kazemii* Bagheri, 2013 in Bagheri, Zarei, Ahaniazad, Gharekhany & Navaei-Bonab, 2013: 294**—Holotype female (PPRP), from the soil from apple tree orchards, Miandoab, West Azerbaijan Province, Iran.

***Anoplocheylus marivaniensis* Khanjani, Hoseini & Amini, 2014: 189**—Holotype female (BASU), from soil and rotten leaves of oak trees, *Quercus brantii*, Marivan vicinity, Kurdistan Province, Iran (35°26'N, 46°13'E).

*Anoplocheylus qorvehensis* Khanjani, Hoseini & Amini, 2014: 192—Holotype female (BASU), from soil under Astragalus sp., Qorveh vicinity, Kurdistan Province, Iran (47°47'06.33"N, 35°09'03.62"E).

*Anoplocheylus sinai* Bagheri, 2013 in Bagheri, Zarei, Ahaniazad, Gharekhany & Navaei-Bonab, 2013: 293—Holotype female (PPRP), from soil in apple and blackcherry orchards, Miandoab and Azarshahr, East Azerbaijan Province, Iran.

Family **Teneriffiidae** (1 species)

*Austroteneriffia shiraziensis* Khanjani, Yazdanpanah & Fayaz, 2013: 49—Holotype female (BASU), from oak soil, Koohmare Sorkhi region, Fars Province, Iran (29°30'51"N, 52°11'43"E).

Superfamily **Caeculoidea** (1 species)

Family **Caeculidae** (1 species)

*Neocaeculus orientalis* Fuangarworn & Butcher, 2015: 262—Holotype female (CUMNH), from Lai Nan Sub-dist, Wiang Sa Dist., Nan Prov., Thailand (18°33'29.81"N, 100°47'48.67"E).

Superfamily **Paratydeoidea** (1 species)

Family **Paratydeidae** (1 species)

*Tanytydeus beyzavii* Khanjani, Nadri, Khanjani & Seeman, 2014: 175—Holotype female (BASU), from soil under gum bushes, Astragalus gossypinus, Alashtar, Kahman, Lorestan Province, Iran (33°53'09"N, 48°19'28"E).

Hyporder **Parasitengona** (167 species)

Superfamily **Erythraeidea** (1 species)

Family **Erythraeidae** (1 species)

*Charletonia cameroonensis* Haitlinger & Kekeunou, 2014 in Haitlinger, Kekeunou & Lupicki, 2014: 41—Holotype larva (MNHU), from Zonocerus variegatus, Zamakoe, Cameroon (3°34'44"N, 11°39'33"E).

Superfamily **Eylaoidea** (1 species)

Family **Limnocharidae** (1 species)

*Limnochares spinosa* Smit & Pešić, 2014: 5—Holotype male (RMNH), from little Lumotok stream, Borneo, Sayap, Mt Kinabalu, Malaysia (6°09.467"N, 116°34.027"E).

Superfamily **Trombiculoidea** (25 species)

Family **Johnstonianidae** (2 species)

*Diplothrombium ostovani* Noei & Saboori, 2014 in Noei, Saboori & Hajizadeh, 2014: 248—Holotype larva (JAZM, ARS-20131003-2a), from soil (off host), forest close to river, Gijave village, Asalem city, Guilan Province, Iran (37°42.077"N, 48°54.077"E).

*Diplothrombium sahragardi* Noei & Saboori, 2014 in Noei, Saboori & Hajizadeh, 2014: 247—Holotype larva (JAZM, ARS-20131003-1a), from soil (off host), forest close to river, Gijave village, Asalem city, Guilan Province, Iran (37°42.077"N, 48°54.077"E).

Family **Trombiculidae** (23 species)

*Diaguitacarus choapensis* Stekolnikov & González-Acuña, 2015: 24—Holotype larva (ZISP, collection No. 8442, T-Tr.-72), from *Liolaemus pseudolemniscatus*, Las Chinchillas Natural Reserve, Coquimbo Region, Choapa Province, Chile.

*Eutrombicula mistrali* Stekolnikov & González-Acuña, 2015: 9—Holotype larva (ZISP, collection No. 9611, T-Tr.-67), from *Microlophus quadrivittatus*, Caleta Vitor, Arica and Parinacota Region, Arica Province, Chile (18°45'S, 70°20'W).

*Eutrombicula nerudai* Stekolnikov & González-Acuña, 2015: 3—Holotype larva (ZISP, collection No. 8492, T-Tr.-66), from *Liolaemus nitidus*, Llanos de Challe National Park, Atacama Region, Chile.

*Eutrombicula picunche* Stekolnikov & González-Acuña, 2015: 11—Holotype larva (ZISP, collection No. 8506, T-Tr.-68), from *Liolaemus fuscus*, La Campana National Park, Valparaíso Region, Quillota Province, Chile.

*Leptotrombidium abramovi* Stekolnikov, 2013: 34—Holotype larva (ZISP, T-Tr.-58), from *Hylomys megalotis*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.

- Leptotrombidium aenigmami* Stekolnikov, 2013: 30—Holotype larva (ZISP, T-Tr.-57), from *Laonastes aenigmamus*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.
- Leptotrombidium bochkovi* Stekolnikov, 2013: 60—Holotype larva (ZISP, L-316, T-Tr.-60), from *Hylomys megalotis*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.
- Leptotrombidium kinabalui* Stekolnikov, 2013: 43—Holotype larva (IMR, L: 81572/b), from *Dendrogale melanura*, Kinabalu Mt, Sabah State, Malaysia.
- Leptotrombidium laoense* Stekolnikov, 2013: 92—Holotype larva (ZISP, T-Tr.-61), from *Laonastes aenigmamus*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.
- Leptotrombidium megabodense* Stekolnikov, 2013: 42—Holotype larva (IMR, L: 82153/4), from *Tupaia montana*, Kinabalu Mt, Sabah State, Malaysia.
- Leptotrombidium megalangati* Stekolnikov, 2013: 42—Holotype larva (IMR, L: 4159/1), from *Leopoldamys edwardsi*, Brinchang Mt, Pahang State, Malaysia.
- Leptotrombidium megaloti* Stekolnikov, 2013: 98—Holotype larva (ZISP, T-Tr.-62), from *Hylomys megalotis*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.
- Leptotrombidium minului* Stekolnikov, 2013: 44—Holotype larva (IMR, No 15924), from *Berylmys bowersi*, Ulu Langat, Selangor State, Malaysia.
- Leptotrombidium saigoni* Stekolnikov, 2013: 69—Holotype larva (IPHCMC, No 2004), from *Rattus rattus*, An Khe, Gia Lai Province, Vietnam.
- Leptotrombidium tenompaki* Stekolnikov, 2013: 45—Holotype larva (IMR, No19245), from *Tupaia montana*, Tenompak, Kinabalu Mt, Sabah State, Malaysia.
- Leptotrombidium tikhonovi* Stekolnikov, 2013: 50—Holotype larva (ZISP, T-Tr.-59), from *Hylomys megalotis*, Ban Doy village, 18 km N from Thakhek, Khammouane Province, Laos.
- Leptotrombidium ului* Stekolnikov, 2013: 44—Holotype larva (IMR, No 12247-1), from *Leopoldamys sabanus*, Ulu Langat, Selangor State, Malaysia.
- Microtrombicula mapuche* Stekolnikov & González-Acuña, 2015: 13—Holotype larva (ZISP, collection No. 7702, T-Tr.-69), from *Liolaemus chillanensis*, tourist camp Waldorf, Nevados de Chillán Mts, Biobío Región, Chile (36°51'41"S, 71°26'45"W).
- Morelacarus camanchaca* Stekolnikov & González-Acuña, 2015: 36—Holotype larva (ZISP, collection No. 8458, T-Tr.-75), from *Liolaemus platei*, Fray Jorge National Park, Coquimbo Region, Limarí Province, Chile.
- Morelacarus jorgei* Stekolnikov & González-Acuña, 2015: 34—Holotype larva (ZISP, collection No. 8451, T-Tr.-74), from *Liolaemus platei*, Fray Jorge National Park, Coquimbo Region, Limarí Province, Chile.
- Parasecia molini* Stekolnikov & González-Acuña, 2015: 16—Holotype larva (ZISP, collection No. 7707, T-Tr.-70), from *Liolaemus chillanensis*, Aguas Calientes, Nevados de Chillán Mts, Biobío Region, Chile (36°54'28"S, 71°22'14"W).
- Paratrombicula philippii* Stekolnikov & González-Acuña, 2015: 19—Holotype larva (ZISP, collection No. 8445, T-Tr.-71), from *Liolaemus nigromaculatus*, Fray Jorge National Park, Coquimbo Region, Limarí Province, Chile.
- Proschoengastia antarctica* Stekolnikov & González-Acuña, 2015: 30—Holotype larva (ZISP, collection No. 8483, T-Tr.-73), from *Neovison vison*, Navarino Island, Region of Magallanes and Antártica Chilena, Antártica Chilena Province, Chile.

Superfamily Trombidoidea (4 species)

Family Achaemenothrombiidae (1 species)

*Achaemenothrombium dariusi* Saboori, Wohltmann & Hakimitabar, 2013 in Saboori, Wohltmann, Hakimitabar & Shirvani, 2013: 144—Holotype larva (JAZM, ARS-20130205-1a), from *Euxoa fallax*, Kerman Province, Iran (30°11'8"N, 57°24'54"E).

Family Microtrombidiidae (1 species)



*Empitrombium makolae* Sevsay & Karakurt, 2013: 264—Holotype female (EUE), Köse mountain, Gümüşhane Province, Turkey (40°14'921N, 38°39'846E).

Family **Trombidiidae** (2 species)

*Emitrombidium giocondi* Małol & Sevsay, 2014: 96—Holotype adult (ZIZMUH), from pitfall traps, in olive groves, close to the seaside, Kıyıkışlacık village nr Muğla, Turkey (37°16'38.80"N, 27°33'47.97"E).

*Paratrombium rovniense* Konikiewicz & Małol, 2014: 588—Holotype larva (SIZK, K-8284-A), from “Pugach” mine, Klesov, Ukraine.

Superfamily **Hydryphantoidea** (1 species)

Family **Hydryphantidae** (1 species)

*Protzia borneoensis* Smit & Pešić, 2014: 7—Holotype female (RMNH), from torrential stream, Borneo, Alab-Kota Kinabalu road, Crocker Range, Malaysia (5°50.039'N, 116°20.156'E).

Superfamily **Hydrachnoidea** (6 species)

Family **Hydrachnidae** (5 species)

*Hydrachna cordata* Smit, 2014: 172—Holotype male (QM), Queensland, Lake Emma, Lakefield NP, Australia (15°17'47.43"S, 144°38'48.05"E).

*Hydrachna curtiscutata* Smit, 2014: 174—Holotype male (QM), Queensland, Temporary pond along Wyseby road, Australia (24°59.185'S, 148°24.416'E).

*Hydrachna longiscutata* Smit, 2014: 176—Holotype male (AMS), New South Wales, Artificial pool, Rockhole Loop, Mutawintji NP, Australia.

*Hydrachna novaehollandica* Smit, 2014: 180—Holotype male (WAM), from Jackaroo's Waterhole, Western Australia, El Questro Station, The Kimberley, Australia.

*Hydrachna queenslandica* Smit, 2014: 182—Holotype male (QM), from Lake Emma, Queensland, Lakefield NP, Australia (15°17'47.43"S, 144°38'48.05"E).

Superfamily **Lebertioidea** (33 species)

Family **Sperchontidae** (2 species)

*Sperchonopsis orientalis* Smit & Pešić, 2014: 13—Holotype male (RMNH), from Mahua stream, Crocker Range, Borneo, Malaysia (5°45.225'N, 116°26.085'E).

*Sperchon (Sperchon) kinabaluensis* Smit & Pešić, 2014: 9—Holotype male (RMNH), from Kipungit River, Poring Hot Springs, Mt. Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).

Family **Anisitsiellidae** (2 species)

*Nilotonia (Dartonia) sketi* Pešić, 2013a: 373—Holotype male (SMF), from pools of percolated water, Trung Trang Cave, Dao Cat Ba (= Cat Ba Island), Cat Ba National Park, W of Vinh Ha Long, Vietnam.

*Hydrobaumia purpurea* Smit, 2013: 207—Holotype female (RMNH), from Pandanus marsh, beach Base G, Jayapura, New Guinea, Papua Province, Indonesia (2°31.035'S, 140°44.360'E).

Family **Oxidae** (2 species)

*Oxus (Oxus) fuscus* Smit & Pešić, 2014: 15—Holotype female (RMNH), from Mahua stream, Borneo, Mahua, Crocker Range, Malaysia (5°47.838'N, 116°24.510'E).

*Oxus (Oxus) manokwariensis* Smit, 2013: 209—Holotype male (RMNH), from “Waterfall Creek”, Manokwari, West Papua Province, Indonesia (0°52.888'S, 134°02.628'E).

Family **Torrenticolidae** (27 species)

*Monatractides epiales* Pešić & Smit, 2014: 52—Holotype male (RMNH), from Mt Kinabalu, Poring Hot Springs, Kipungit River, Borneo, Malaysia (6°02.776'N, 116°41.432'E).

*Monatractides euterpe* Pešić & Smit, 2014: 42—Holotype male (RMNH), Atewa Hills, Unnamed creek upstream Sagyimase, Ghana (6°13.966'N, 0°33.114'W).

*Monatractides heracles* Pešić & Smit, 2014: 60—Holotype male (RMNH), from Mt Kinabalu, Sayap, Little Lumotok stream, Borneo, Malaysia (6°09.467'N, 116°34.027'E).

*Monatractides melpomene* Pešić & Smit, 2014: 44—Holotype male (RMNH), Amedzofe Falls, Ghana (6°50.656'N, 0°26.868'E).

*Monatractides minuta* Pešić & Smit, 2014: 63—Holotype female (RMNH), from Mt Kinabalu, Great Lumotok stream, Borneo, Malaysia (6°09.336'N, 116°34.056'E).

*Monatractides morpheus* Pešić & Smit, 2014: 54—Holotype male (RMNH), from Mt Kinabalu, small stream Layang Layang, Borneo, Malaysia (6°02.711'N, 116°33.627'E).

*Monatractides phantasos* Pešić & Smit, 2014: 57—Holotype female (RMNH), from Mt Kinabalu, Sayap, stream Kemantis, Borneo, Malaysia (6°09.841'N, 116°33.936'E).

*Monatractides phobctor* Pešić & Smit, 2014: 59—Holotype male (RMNH), from Mt Kinabalu, Sayap, Little Lumotok stream, Borneo, Malaysia (6°09.467'N, 116°34.027'E).

*Monatractides polyhymnia* Pešić & Smit, 2014: 46—Holotype male (RMNH), Kyabobo NP, Kue River, Ghana (8°31.087'N, 0°36.049'E).

*Monatractides terpsichore* Pešić & Smit, 2014: 51—Holotype female (RMNH), Agumatsa Wildlife Sanctuary, Plunge pool Agumatsa Falls, Ghana (7°06.350'N, 0°36.476'E).

*Monatractides thalia* Pešić & Smit, 2014: 49—Holotype male (RMNH), Agumatsa Wildlife Sanctuary, Agumatsa River at first bridge, Ghana (7°06.830'N, 0°35.760'E).

*Monatractides urania* Pešić & Smit, 2014: 54—Holotype male (RMNH), Kintampo Falls, Ghana (8°05.413'N, 1°41.881'W).

*Neoatractides (Allotorrenticola) erato* Pešić & Smit, 2014: 24—Holotype male (RMNH), Atewa Hills, small rainforest stream upstream Sagyimase, Ghana (6°13.964'N, 0°33.116'W).

*Neoatractides sundaensis* Pešić & Smit, 2014: 28—Holotype female (RMNH), Mt Kinabalu, Sayap, stream Kemantis, Borneo, Malaysia (6°09.841'N, 116°33.936'E).

*Neoatractides uniscutatus* Pešić & Smit, 2014: 32—Holotype male (RMNH), Crocker Range, Inobong, unnamed stream Bansadon Trail, Borneo, Malaysia (5°51.456'N, 116°68.403'E).

*Pseudotorrenticola borneoensis* Pešić & Smit, 2014: 32—Holotype male (RMNH), from Mt Kinabalu, Sayap, Little Lumotok stream, Borneo, Malaysia (6°09.497'N, 116°34.027'E).

*Stygotorrenticola coniseta* Pešić & Gerecke, 2014: 373—Holotype male (SMF), from gours of dripping water- internal canyon, Grotta passante, Tam Son, Quan Ba, Ha Giang, QBTS 03, Vietnam (23°02'44.7"N, 104°59'23.9"E).

*Torrenticola borneoensis* Pešić & Smit, 2014: 6—Holotype male (RMNH), from Mt Kinabalu, Sayap, stream Kemantis, Borneo, Malaysia (6°09.841'N, 116°33.936'E).

*Torrenticola calliope* Pešić & Smit, 2014: 21—Holotype male (RMNH, ZMA.ACAR.32333), Roby River, Ethiopia (9°44.996'N, 38°59.743'E).

*Torrenticola comorosensis* Pešić & Smit, 2015 in Pešić, Smit & Mary, 2015: 447—Holotype male (MNHN), from River Koualé tributary Mayotte, Comoros (12°47'57.3"S, 45°09'51.2"E).

*Torrenticola episce* Pešić, Chatterjee, Das & Bordoloi, 2013: 455—Holotype male (MNHP), from the gut content of *Botia Dario*, Kakarikata beel Majuli Island, Jorhat district, Assam State, India.

*Torrenticola kinabaluensis* Pešić & Smit, 2014: 8—Holotype male (RMNH), from Crocker Range, downstream of national park entrance, Mahua stream, Borneo, Malaysia (5°46.491'N, 116°25.770'E).

*Torrenticola (Megapalpis) anophthalma* Pešić & Gerecke, 2014: 368—Holotype female (SMF), from gours of dripping water-internal canyon, transition cave, Tam Son, Quan Ba, Ha Giang, QBTS 03, Vietnam (23°02'44.7"N, 104°59'23.9"E).

*Torrenticola neoindica* Pešić & Smit, 2014: 20—Holotype male (RMNH), from Crocker Range, downstream of national park entrance, Mahua stream, Borneo, Malaysia (5°46.491'N, 116°25.770'E).

*Torrenticola sabahensis* Pešić & Smit, 2014: 11—Holotype male (RMNH), from Mt Kinabalu, Great Lumotok stream, Borneo, Malaysia (6°09.336'N, 116°08.417'E).

*Torrenticola schilthuizeni* Pešić & Smit, 2014: 25—Holotype male (RMNH), from Crocker Range, Kibamabangan River, Borneo, Malaysia (5°51.28'N, 116°08.417'E).

*Torrenticola (Torrenticola) vietnamica* Tuzovskij, 2013a: 548—Holotype female (IBIW, slide 9518), from Khe (Khê) River, the inflow of Cai River, Khanh Hoa Province, Vietnam (12°16.741'N, 108°54.669'E).

Superfamily **Hygrobatoidea** (87 species)

Family **Pontarachnidae** (3 species)

*Litarachna gracilis* Pešić, 2013b: 87—Holotype female (NIBR, 0000268890), from Gangneung beach, East Sea, South Korea (37°47.824'N, 128°55.085'E).

*Litarachna lukai* Pešić, 2013b: 85—Holotype male (NIBR, 0000268888), from beach, Wido Island, Yellow Sea, South Korea (35°35.089'N, 126°15.196'E).

*Pontarachna ivonae* Pešić, 2013b: 89—Holotype male (NIBR, 0000268892), from beach, Wido Island, South Korea (35°35.089'N, 126°15.196'E).

Family **Limnesiidae** (4 species)

*Limnesia (Limnesia) multiscutata* Smit, 2013: 210—Holotype female (RMNH), from stream Ilik, near Lake Gita, Anggi Lakes, New Guinea, West Papua Province, Indonesia (1°21.423'S, 133°58.553'E).

*Limnesia (Limnesia) vietnamensis* Tuzovskij, 2013a: 550—Holotype female (IBIW, slide 9694), from forest stream Dak Lua (Đák Lua), Cat Tien (Cát Tiên) National Park, Dong Nai (Đồng Nai) Province, Vietnam (11°29.844'N, 107°22.847'E).

*Limnesia (Limnesia) vogelkop* Smit, 2013: 212—Holotype male (RMNH), from stream ± 3 km S of Mokwam, West Papua Province, Indonesia (1°05.877'S, 133°54.223'E).

*Raptorhydracarus tomasini* Pešić & Gerecke, 2014: 376—Holotype male (SMF), from gours (rimstone pools) of dropping water end of the cave right arm, Grotta Ta Lu, Dong Van, Ha Giang, DV 08, Vietnam (23°15'37.8"N, 105°21'38.5"E).

Family **Frontipodopsidae** (1 species)

*Frontipodopsis suturalis* Smit & Pešić, 2014: 36—Holotype female (RMNH), from Mahua stream, Borneo, Mahua, Crocker Range, Malaysia (5°47.838'N, 116°24.510'E).

Family **Hygrobatidae** (36 species)

*Atractides (Atractides) albaruthenicus* Cichocka & Biesiadka, 2013: 254—Holotype male (UWMO), Suchaja Dolina, river Svisloč, Belarus (53°47'459"N, 23°97'78"E).

*Atractides (Atractides) crockerensis* Smit & Pešić, 2014: 29—Holotype male (RMNH), from Mahua river, upper course, Borneo, Malaysia (5°47.939'N, 116°24.317'E).

*Atractides (Atractides) ghanaensis* Pešić & Smit, 2015b: 344—Holotype male (RMNH), from small rainforest stream upstream Sagyimase, Atewa Hills, Ghana (6°13.964'N, 0°33.116'W).

*Atractides (Atractides) neospatiosus* Smit & Pešić, 2014: 24—Holotype male (RMNH), from first stream Minduk Sirung Trail, Borneo, Alab, Crocker Range, Malaysia (5°49.249'N, 116°19.862'E).

*Atractides (Atractides) sabahensis* Smit & Pešić, 2014: 28—Holotype male (RMNH), from Mahua stream at crossing with main road, Borneo, Crocker Range, Malaysia (5°45.225'N, 116°26.085'E).

*Atractides (Atractides) svislocensis* Cichocka & Biesiadka, 2013: 258—Holotype male (UWMO), Suchaja Dolina, river Svisloč, Belarus (53°47'459"N, 23°97'78"E).

*Atractides curtisetus* Smit & Pešić, 2014: 33—Holotype female (RMNH), from Little Lumotok stream, Borneo, Sayap, Mt Kinabalu, Malaysia (6°09.467'N, 116°34.027'E).

*Atractides reinhardi* Gülle, Gülle & Boyacı, 2015: 246—Holotype female (MAEU), from a pristine spring with dense emergent vegetation (*Nasturtium officinale*) with sandy and muddy bottom, Çavdır, Burdur, Turkey (37°9.44'N, 29°45.92'E).

*Atractides (Tympanomegapus) borneoensis* Smit & Pešić, 2014: 35—Holotype male (RMNH), from Mahua stream, Borneo, Mahua, Crocker Range, Malaysia (5°47.838'N, 116°24.510'E).

*Australiobates elongates* Smit, 2013: 215—Holotype female (RMNH), from Mokwam, New Guinea, West Papua Province, Indonesia (1°00.608'S, 133°53.863'E).

*Dropursides aberratus* Smit, 2013: 220—Holotype female (RMNH), from stream Wasai, SW of Manokwari, New Guinea, West Papua Province, Indonesia (0°55.563'S, 133°58.380'E).

*Hygrobat es acutipalpis* Smit & Pešić, 2014: 15—Holotype male (RMNH), from Silau-Silau stream, park headquarters, Borneo, Mt Kinabalu, Malaysia (6°00.595'N, 116°32.497'E).

*Hygrobat es hamatoides* Smit & Pešić, 2014: 18—Holotype male (RMNH), from small stream Panar Laban Hut, Mt Kinabalu, Malaysia (6°03.641'N, 116°33.968'E).

*Hygrobat es (Hygrobat es) gusakovi* Tuzovskij, 2013a: 554—Holotype female (IBIW, slide 9697), from forest stream Dak Lua (Đák Lua), Cat Tien (Cát Tiên) National Park, Dong Nai (Đồng Nai) Province, Vietnam (11°29.844'N, 107°22.847'E).

*Hygrobat es (Rivobates) zawali* Pešić, 2015: 288—Holotype male (MNHP), from Lake Ohrid, Macedonia.

*Hygrobat es striatus* Smit & Pešić, 2014: 19—Holotype female (RMNH), from Kipungit River, Poring Hot Springs, Mt Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).

*Gondwanabates crassipalpis* Smit, 2015b: 570—Holotype male (QM), from Dalrymple Creek, Goomburra Forest Reserve, Queensland, Australia (27°58.781'S, 152°20.621'E).

*Gondwanabates flavus* Smit, 2015b: 572—Holotype female (QM), from aire River at crossing with Binns Road, Great Otway Ranges NP, Victoria, Australia (38°40.103'S, 143°34.805'E).

*Gondwanabates spatulifer* Smit, 2015b: 574—Holotype male (NMV), from Wannon River at crossing with Serra Road, Grampians NP, Victoria, Australia (37°20.918'S, 142°30.386'E).

*Procorticacarus curtupalpis* Smit, 2015c: 59—Holotype female (NTM), from Moline Bottom Rockhole, Kakadu NP, Northern Territory, Australia (13°34.418'S, 132°15.290'E).

*Procorticacarus kosciuszko* Smit, 2015c: 61—Holotype female (AMS), from Small unnamed stream below summit of Mt Kosciuszko, New South Wales, Mt Kosciuszko NP, Australia (36°27.322'S, 148°15.929'E).

*Procorticacarus nasutus* Smit, 2015c: 64—Holotype female (QM), from double Barrel Creek, Queensland, Babinda, Australia (17°20.852'S, 145°53.075'E).

*Procorticacarus neocaledonicus* Smit, 2015c: 66—Holotype male (MNH), from Trou Bleu River, New Caledonia, Australia (22°20'12.3"S, 166°57'44.4"E).

*Procorticacarus neoprasadi* Smit, 2015c: 66—Holotype male (AMS), from Sawpit Creek at crossing with Kosciuszko Road, Mt Kosciuszko NP, New South Wales, Australia (36°20.984'S, 148°33.818'E).

*Procorticacarus paulae* Smit, 2015c: 68—Holotype male (WAM), from Carey Brook at crossing with Vasse Highway, Western Australia, Australia (34°24.876'S, 115°48.717'E).

*Procorticacarus quadriscutatus* Smit, 2015c: 69—Holotype female (AMS), from Carruthers Peak, Mt Kosciuszko NP, New South Wales, Australia (36°24.621'S, 148°18.338'E).

*Procorticacarus queenslandicus* Smit, 2015c: 71—Holotype female (RMNH), from Babinda River, Wooroonooran NP, Australia (17°20.484'S, 145°52.113'E).

*Procorticacarus septentrionalis* Smit, 2015c: 73—Holotype male (NTM), from Florence Creek downstream of Florence Falls, Litchfield NP, Northern Territory, Australia (13°05.885'S, 130°46.999'E).

*Procorticacarus wenlockensis* Smit, 2015c: 75—Holotype female (QM), from Wenlock River at crossing with Telegraph Road, Cape York Peninsula, Queensland, Australia (12°27'20.65"S, 142°38'27.87"E).



*Protzia longiacetabulata* Gülle & Boyaci, 2014: 585—Holotype female (FFSDU), from fast-flowing stream with gravel bottom, Dim Stream, Alanya, Turkey (36°35.321'N, 32°17.876'E).

*Rhynchaustrobates (Rhynchaustrobates) sclerosus* Smit, 2015b: 576—Holotype male (AMS), from Sugarloaf Creek, at crossing with Misty Mountain Road, Monga NP, New South Wales, Australia (35°33'44.70"S, 150°0'48.61"E).

*Rhynchaustrobates (Rhynchaustrobates) truusae* Smit, 2015b: 579—Holotype male (AMS), from little Wonder Creek, near end of Buckra—Bendinni Road, New South Wales, Australia (30°30.034'S, 152°39.387'E).

*Rhynchaustrobates (Rhynchaustrobates) victorianus* Smit, 2015b: 580—Holotype male (NMV), from scrubby Grampians NP, Valley Creek at Flat Rock Crossing, Australia (37°09.680'S, 142°26.680'E).

*Rhynchaustrobates (Victoriabates) bipartitus* Smit, 2015b: 580—Holotype female (QM), from Tully River at campground, Tully Gorge NP, Queensland, Australia (17°46.280'S, 145°39.073'E).

*Rhynchaustrobates (Victoriabates) uniscutatus* Smit, 2015b: 582—Holotype female (NTM), from Gubarra Creek, upstream of pool, Kakadu NP, Northern Territory, Australia (12°49.605'S, 132°52.708'E).

*Sterkspruitia comorosensis* Pešić, Smit & Mary, 2015: 456—Holotype male (MNH), from River Djalimou, Mayotte, Comoros (12°57'13.8"S, 45°06'52.7"E).

Family **Aturidae** (30 species)

*Albaxona gusevi* Tuzovskij, 2013a: 557—Holotype female (IBIW, slide 9520), from Khê River near the inflow of Cai River, Khanh Hoa Province, Vietnam (12°16.741'N, 108°54.669'E).

*Albaxona mahuaensis* Smit & Pešić, 2014: 49—Holotype male (RMNH), from Mahua stream at crossing with main road, Borneo, Crocker Range, Malaysia (5°45.225'N, 116°26.085'E).

*Albia (Albiella) ilikensis* Smit, 2013: 228—Holotype female (RMNH), from stream Ilik, near lake Gita, Anggi Lakes, New Guinea, West Papua Province, Indonesia (1°21.423'S 133°58.553'E).

*Albia (Albiella) papuaensis* Smit, 2013: 229—Holotype female (RMNH), from unnamed creek, Arso-Senggi, New Guinea, Papua Province, Indonesia (3°03.020'S, 140°50.685'E).

*Albia crocker* Smit & Pešić, 2014: 62—Holotype male (RMNH), from small stream Waterfall Trial, Inobong, Borneo, Crocker Range, Malaysia (5°51.306'N, 116°08.292'E).

*Aturus borneoensis* Smit & Pešić, 2014: 64—Holotype male (RMNH), from Kipungit River, Poring Hot Springs, Mt Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).

*Axonopsella bisetosa* Smit, 2013: 231—Holotype male (RMNH), from small stream upstream, Kobrey, near lake Gigi, Anggi Lakes, West Papua Province, Indonesia (1°23.328'S, 133°54.345'E).

*Axonopsis caeca* Smit & Pešić, 2014: 57—Holotype female (RMNH), from Mahua stream, Mahua, Borneo, Crocker Range, Malaysia (5°47.838'N, 116°24.510'E).

*Axonopsis latipalpis* Smit & Pešić, 2014: 53—Holotype male (RMNH), from Unnamed creek Bansadon Trial, Inobong, Borneo, Crocker Range, Malaysia (5°51.456'N, 116°08.403'E).

*Axonopsis longigenitalis* Smit & Pešić, 2014: 50—Holotype male (RMNH), from Kibamabangan River at waterfall, Inobong, Borneo, Crocker Range, Malaysia (5°51.280'N, 116°08.417'E).

*Axonopsis rugosa* Smit & Pešić, 2014: 52—Holotype female (RMNH), from Kipungit River, Poring Hot Springs, Mt Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).

*Axonopsis truncata* Smit & Pešić, 2014: 54—Holotype male (RMNH), from Kipungit River, Poring Hot Springs, Borneo, Mt Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).

*Brachypoda (Hemibrachypoda) orientalis* Pešić & Esen, 2013 in Esen, Pešić & Erman, 2013: 327—Holotype male (FUE), from Mezra stream, Pütürge, Malatya Province, Turkey (38°15.01'N, 38°38.37'E).

*Brachypoda milicaae* Pešić & Semenchenko, 2014: 336—Holotype male (NIBR), from stream near Naebyeansan Info Center, CR9 Ne myeon Mt, Naebyeansan NP, South Korea (35°38'25.623"N, 126°34'53.1438"E).

- Brachypoda rossica* Pešić & Semenenko, 2014: 342—Holotype male (300-kas IBSS), from Levaya Burinda River, Magdagachinsky District, Amurskaya Province, Russia (53°27.731'N, 125°07.808'E).
- Brachypoda sokolowi* Pešić & Semenenko, 2014: 339—Holotype male (299-kas IBSS), from Levaya Burinda River, Magdagachinsky District, Amurskaya Province, Russia (53°27.731'N, 125°07.808'E).
- Erebaxonopsis kipungitensis* Smit & Pešić, 2014: 58—Holotype male (RMNH), from Kipungit River, Poring Hot Springs, Mt Kinabalu, Malaysia (6°02.776'N, 116°41.432'E).
- Javalbia borneoensis* Smit & Pešić, 2014: 41—Holotype male (RMNH), from small stream Waterfall Trail, Borneo, Inobong, Crocker Range, Malaysia (5°51.306'N, 116°08.292'E).
- Javalbia kinabaluensis* Smit & Pešić, 2014: 44—Holotype male (RMNH), from Liwagu stream, at crossing with summit trail, Mt Kinabalu, Borneo, Malaysia (6°01.868'N, 116°32.912'E).
- Javalbia magniseta* Smit & Pešić, 2014: 44—Holotype female (RMNH), from Mahua stream at crossing with main road, Borneo, Crocker Range, Malaysia (5°45.225'N, 116°26.085'E).
- Javalbia montana* Smit & Pešić, 2014: 38—Holotype male (RMNH), from Liwagu stream, at crossing with summit trail, Borneo, Mt Kinabalu, Malaysia (6°01.868'N, 116°32.912'E).
- Javalbia reticulata* Smit & Pešić, 2014: 47—Holotype male (RMNH), from Small stream Layang Layang, Mt Kinabalu, Malaysia (6°02.711'N, 116°33.627'E).
- Javalbia solitaria* Smit & Pešić, 2014: 40—Holotype male (RMNH), from Kemantis stream, Borneo, Sayap, Mt Kinabalu, Malaysia (6°09.841'N, 116°33.936'E).
- Javalbia uncinata* Smit & Pešić, 2014: 47—Holotype male (RMNH), from Mahua stream, downstream of national park entrance, at crossing with national park road, Borneo, Crocker Range, Malaysia (5°46.491'N, 116°25.770'E).
- Kongsbergia albanorum* Gerecke, 2014: 29—Holotype male (NHMW), 620 m, UC 50 06, stream Lumi i Varfrit, Sicily (PA) Piana degli Albanesi, I 495 Int, Sicily, Italy.
- Kongsbergia jaentschi* Gerecke, 2014: 32—Holotype male (NHMW), 620 m, UC 50 06, stream Lumi i Varfrit, P. d. Albanesi (PA), I 495 Int, Sicily, Italy.
- Ljanina inconspicua* Smit & Pešić, 2014: 61—Holotype female (RMNH), from Mahua stream at crossing with main road, Borneo, Crocker Range, Malaysia (5°45.225'N, 116°26.085'E).
- Ljanina oblitterata* Smit & Pešić, 2014: 62—Holotype female (RMNH), from Kemantis stream, Sayap, Borneo, Mt Kinabalu, Malaysia (6°09.841'N, 116°33.936'E).
- Woolastookia basilicalabrica* Gerecke, 2014: 38—Holotype male (NHMW), spring brook, Fonte Cannello, Saracena Pellegrino (CS), Calabria, Italy.
- Zelandaturus magnipes* Smit, 2015a: 444—Holotype male (MNZ), from Camping Gully stream near Rakaia Gorge, hyporheic, South Island, New Zealand (43°31.608'S, 171°40.345'E).

Family **Unionicolidae** (10 species)

- Koenikea (Notomideopsis) sentaniensis* Smit, 2013: 226—Holotype male (RMNH), from Lake Sentani, , New Guinea, Papua Province, Indonesia (2°33.576'S, 140°25.438'E).
- Neumania (Neumania) silvestris* Smit, 2013: 223—Holotype male (RMNH), from unnamed creek, UNCEN-forest, Abepura, New Guinea, Papua Province, Indonesia (2°34.925'S, 140°39.173'E).
- Neumania (Soarella) comorosensis* Pešić & Smit, 2015 in Pešić, Smit & Mary, 2015: 590—Holotype female (MNH), from River Djalimou, upstream, Mayotte, Comoros (12°56'58.4"S, 45°07'23.7"E).
- Recifella (Eorecifella) fluvialtilis* Smit, 2013: 223—Holotype male (RMNH), from River Kamp Walker, Abepura, New Guinea, Papua Province, Indonesia (2°34.202'S, 140°38.886'E).
- Unionicola aculeatella* Tuzovskij & Semenenko, 2015: 424—Holotype male (IBIW-6908), from Gusinoe Lake, Park “Samarskaya Luka”, National natural, Stavropol District, Samara Province, Russia.

*Unionicola primoryensis* Tuzovskij & Semenenko, 2015: 445—Holotype male (IBSS-kas-325), from mantle cavity of *Lanceolaria chankensis*, Astrakhansky Bay, Khankaysky District, Khanka Lake, Primory Territory, Russia.

*Unionicola rossica* Tuzovskij & Semenenko, 2015: 408—Holotype female (IBIW-2819), from small lakes near settlement Markovo, Anadyr District, Magadan Province, Russia.

*Unionicola samaraensis* Tuzovskij & Semenenko, 2015: 434—Holotype female (IBIW-7453), from Kondurcha River (right inflow of the Sok River), Krasnoyarsk District, Samara Province, Russia.

*Unionicola setipella* Tuzovskij & Semenenko, 2015: 436—Holotype male (IBIW-3750), from Rybinsk reservoir near village Pogorelka, Nekouz District, Yaroslavl Province, Russia.

*Unionicola (Unionicola) novaeguineae* Smit, 2013: 220—Holotype male (RMNH), from Lake Sentani, Papua Province, Indonesia (2°33.576'S, 140°25.438'E).

Family **Pionidae** (3 species)

*Piona anadyrensis* Tuzovskij, 2013c: 327—Holotype male (IBIW, slide 2857), from small thermocarstic lake, settlement Markovo, Anadyr District, Chukotka, Russia.

*Piona interrupta interruptella* Tuzovskij, 2013c: 331—Holotype female (IBIW, slide 2305), from Majorskoe Lake, settlement Markovo, Anadyr District, Chukotka, Russia.

*Piona magadanensis* Tuzovskij, 2013c: 322—Holotype male (IBIW, slide 2430), from small forest pond, settlement Ola, Ola District, Magadan Province, Russia.

Superfamily **Arrenuroidea** (10 species)

Family **Mideopsidae** (1 species)

*Xystonotus (Xystonotus) phytotelmaticola* Pešić, 2015 in Pešić, Piccoli, Araújo, Rezende & Gonçalves: 149—Holotype male (PEU), from *Vrisea procera*, Ilha do Cardoso, Cananéia, São Paulo, Brazil (25°04'16"S, 47°55'23"W).

Family **Athienemanniidae** (2 species)

*Africasia acuticoxalis* Smit & Pešić, 2014: 67—Holotype female (RMNH), from unnamed creek Bansadon Trail, Borneo, Inobong, Crocker Range, Malaysia (5°51.456'N, 116°08.403'E).

*Africasia vietnamitica* Pešić & Gerecke, 2014: 376—Holotype female (SMF), from small lake - siphon in right arm, Dragon Cave, Sang Tung, Dong Van, Ha Giang, DV 09, Vietnam (23°12'41.8"N, 105°14'12.9"E).

Family **Arrenuridae** (7 species)

*Arrenurus (Megaluracarus) anitahoffmannae* Ramírez-Sánchez & Rivas, 2013: 318—Holotype male (UNAM), Del Negro lake, Villahermosa, Tabasco, Mexico (18°00'31"N, 92°55'08"W).

*Arrenurus (Megaluracarus) maya* Ramírez-Sánchez & Rivas, 2013: 326—Holotype male (UNAM), Chac-Ha cenote, 3.5 km northeast of Calotmul, Yucatan, Mexico (21°04'40"N, 88°08'27"W).

*Arrenurus (Megaluracarus) olmeca* Ramírez-Sánchez & Rivas, 2013: 321—Holotype male (UNAM), Loma del Caballo lake, route 180 km 7.5, Centro, Tabasco, Mexico (17°59'01"N, 93°00'04"W).

*Arrenurus (Megaluracarus) urbanus* Ramírez-Sánchez & Rivas, 2013: 328—Holotype male (UNAM), Cuemanco canal, Xochimilco ecological park, Mexico City, Mexico (19°17'20"N, 99°06'06"W).

*Arrenurus (Rhinophoracarus) comorosensis* Pešić & Smit, 2015 in Pešić, Smit & Mary, 2015: 593—Holotype female (MNHN), from River Koualé, upstream, Mayotte, Comoros (12°48'46.5"S, 45°09'40.9"E).

*Arrenurus ovatipetiolatus* Esen & Erman, 2013 in Esen, Erman & Dilkaraoglu, 2013: 74—Holotype male (FUE), Lake Bağlama, Pazarcık, Kahramanmaraş Province, Turkey (37°16.52'N, 37°07.30'E).

*Thoracophoracarus uniactabulatus* Smit & Pešić, 2014: 67—Holotype female (RMNH), from unnamed creek Bansadon Trail, Borneo, Inobong, Crocker Range, Malaysia (5°51.456'N, 116°08.403'E).

Infraorder **Eleutherengona** (155 species)

Hyporder **Raphignathina** (135 species)

Superfamily **Cheyletoidea** (79 species)

Family **Harpirhynchidae** (47 species)

*Anharpyrhynchus apodus* **Bochkov & Klompen, 2014a: 320**—Holotype female (OSAL, 0083789), from *Lichmera indistincta*, Beagle Bay, Western Australia, Australia (16°53'24"S, 122°31'12"E).

*Anharpyrhynchus elizae* **Bochkov & Klompen, 2014a: 317**—Holotype female (OSAL, 0083656), from *Cyanocitta cristata*, O'Leno State Park, Columbia Co., Florida, USA (29°55'12"N, 82°34'48"W).

*Anharpyrhynchus lukoschusi* **Bochkov & Klompen, 2014a: 322**—Holotype female (OSAL, 0083777), from *Manorina flavigula*, Mount Hart, Western Australia, Australia (17°01'12"S, 125°04'12"E).

*Crassacarus alexfaini* **Bochkov, OConnor & Klompen, 2015: 68**—Holotype female (UMMZ, BMOC 09-1222-004, #1), from *Cardinalis cardinalis*, Livingston Co., Michigan, USA.

*Crassacarus fritschii* **Bochkov, OConnor & Klompen, 2015: 72**—Holotype female (UMMZ, BMOC 08-1110-002, #1), from *Bombycilla cedrorum*, Muskegon State game Area, along US route 31, Muskegon Co., Michigan, USA (43°17'46"N, 86°04'01"W).

*Crassacarus melanerpes* **Bochkov, OConnor & Klompen, 2015: 76**—Holotype female (OSAL, 0077574), from *Melanerpes formicivorus*, Craig, Johnson Co., Kansas, USA (38°58'12"N, 94°49'12"W).

*Crassacarus sialia* **Bochkov, OConnor & Klompen, 2015: 73**—Holotype female (OSAL, 0083648), from *Sialia currucoides*, Gillette, 19.3 km E of, Campbell Co., Wyoming, USA (44°17'24"N, 105°30'00"W).

*Crassacarus tinae* **Bochkov, OConnor & Klompen, 2015: 70**—Holotype female (OSAL, 0083653), from *Carduelis tristis*, Gillette, Campbell Co., Wyoming, USA (44°17'24"N, 105°30'00"W).

*Fainharpirhynchus legatus* **Bochkov & Klompen, 2014a: 308**—Holotype female (OSAL, 0083623), from *Legatus leucophaius*, 1.6 km E on Cumuto Road, Cumuto, Sangre Grande, Trinidad and Tobago (10°34'48"N, 61°12'00"W).

*Fainharpirhynchus mossi* **Bochkov & Klompen, 2014a: 311**—Holotype female (OSAL, 0083893), from *Myiarchus crinitus*, North America, no other data.

*Harpypalpoides hirundinoides* **Bochkov & Klompen, 2014b: 469**—Holotype female (OSAL, 0082920), from *Hirundo rustica*, Schaijk, Noord Brabant, The Netherlands (51°45'00"N, 5°37'48"E).

*Harpypalpoides johnstoni* **Bochkov & Klompen, 2014b: 470**—Holotype female (OSAL, 0082946), from *Fringilla coelebs*, Arnhem, Gelderland, The Netherlands (51°58'48"N, 5°55'12"E).

*Harpypalpoides regulus* **Bochkov & Klompen, 2014b: 472**—Holotype female (OSAL, 0082833), from *Regulus regulus*, Schaijk, Noord Brabant, The Netherlands (51°45'00"N, 5°37'48"E).

*Harpypalpoides sitta* **Bochkov & Klompen, 2014b: 474**—Holotype female (OSAL, 0082882), from *Sitta pygmaea*, Monterey Co., California, USA (35°48'36"N, 121°21'36"W).

*Harpypalpoides sylvia* **Bochkov & Klompen, 2014b: 473**—Holotype female (OSAL, 0082874), from *Sylvia atricapilla*, Amsterdam, Noord-Holland, The Netherlands (52°22'12"N, 4°53'24"E).

*Harpypalpus lonchura* **Bochkov & Klompen, 2014b: 461**—Holotype female (OSAL, 0082504), from *Lonchura castaneothorax*, Mount Hart, Western Australia, Australia (17°01'12"S, 125°04'12"E).

*Harpypalpus pyrrhula* **Bochkov & Klompen, 2014b: 463**—Holotype female (OSAL, 0082535), from *Pyrrhula pyrrhula*, Nijmegen, Gelderland, The Netherlands (51°49'60"N, 5°52'00"E).

*Harpypalpus sturnus* **Bochkov & Klompen, 2014b: 464**—Holotype female (OSAL, 0082907), from *Sturnus vulgaris*, Nijmegen, Gelderland, The Netherlands (51°49'60"N, 5°52'00"E).

*Harpypalpus taeniopygia* **Bochkov & Klompen, 2014b: 462**—Holotype female (OSAL, 0082531), from *Taeniopygia guttata*, Brooking Springs, Western Australia, Australia (18°07'12"S, 125°34'48"E).

*Harpyrhynchoides actitis* **Bochkov, OConnor & Klompen, 2015: 23**—Holotype female (OSAL, 0077502), from *Actitis macularius*, Vancouver, British Columbia, Canada (49°09'36"N, 122°51'36"W).



*Harpyrhynchoides athene* **Bochkov, OConnor & Klompen, 2015: 57**—Holotype female (OSAL, 0082592), from *Athene canicularia*, Lubbock, Lubbock Co., Texas, USA (33°34'48"N, 101°51'36"W).

*Harpyrhynchoides bubulcus* **Bochkov, OConnor & Klompen, 2015: 29**—Holotype female (UMMZ, BMOC 89-0315-001, #1), from *Bubulcus ibis*, Lake Adaïre, Orlando, Orange Co., Florida, USA (28°33'60"N, 81°15'39"W).

*Harpyrhynchoides calidris* **Bochkov, OConnor & Klompen, 2015: 20**—Holotype female (OSAL, 0079988), from *Calidris minutilla*, Lawrence, Douglas Co., Kansas, USA (38°58'12"N, 95°14'24"W).

*Harpyrhynchoides charadrius* **Bochkov, OConnor & Klompen, 2015: 23**—Holotype female (OSAL, 0077525), from *Charadrius vociferus*, Lubbock Co., Texas, USA.

*Harpyrhynchoides coccyzus* **Bochkov, OConnor & Klompen, 2015: 46**—Holotype female (UMMZ, BMOC 06-0518-001, #1 5), from *Coccyzus americanus*, UM Campus, Ann Arbor, Washtenaw Co., Michigan, USA (42°16'46"N, 83°44'19"W).

*Harpyrhynchoides crotophaga* **Bochkov, OConnor & Klompen, 2015: 63**—Holotype female (OSAL, 0082454), from *Crotophaga ani*, Weg naar Zee, Paramaribo, Suriname (05°49'12"N, 55°10'12"W).

*Harpyrhynchoides gallowayi* **Bochkov, OConnor & Klompen, 2015: 52**—Holotype female (ZISP, AVB 13-0325-004, #1), from *Columba livia*, Winnipeg, Manitoba, Canada.

*Harpyrhynchoides ixobrychus* **Bochkov, OConnor & Klompen, 2015: 32**—Holotype female (UMMZ, BMOC 81-0605-006), from *Ixobrychus exilis*, Oakland Co., Michigan, USA.

*Harpyrhynchoides megascops* **Bochkov, OConnor & Klompen, 2015: 42**—Holotype female (UMMZ, BMOC 09-0207-001, #1), from *Megascops asio*, Marble Ct., Commerce Twp., Oakland Co., Michigan, USA (42°33'52"N, 83°27'49"W).

*Harpyrhynchoides pluvialis* **Bochkov, OConnor & Klompen, 2015: 26**—Holotype female (OSAL, 0069439), from *Pluvialis dominica*, Wooster, Wayne Co., Ohio, USA (40°49'48"N, 81°52'48"W).

*Harpyrhynchoides puffinus* **Mertins, 2015 in Bochkov, OConnor & Klompen, 2015: 34**—Holotype female (UMMZ, BMOC 15-0302-001, #1), from *Puffinus gravis*, Atlantic Ocean adjacent to east coast of Martin Co., Florida, USA.

*Harpyrhynchoides setophaga* **Bochkov & Klompen, 2014c: 406**—Holotype female (ZISP H-T-9; ZISP AVB 14-0725-001), from *Setophaga ruticilla*, Manitoba, Winnipeg, Canada.

*Harpyrhynchoides spizella* **Bochkov & Klompen, 2014c: 415**—Holotype female (OSAL, 0077831), from *Spizella passerina*, Hopland Field Station, Mendocino Co., California, USA (39°00'00"N, 123°04'48"W).

*Harpyrhynchoides xanthocephalus* **Bochkov & Klompen, 2014c: 414**—Holotype female (OSAL, 0083369), from *Xanthocephalus xanthocephalus*, Valentine, Cherry Co., Nebraska, USA (42°52'12"N, 100°33'00"W).

*Harpyrhynchoides zenaida* **Bochkov, OConnor & Klompen, 2015: 44**—Holotype female (UMMZ, BMOC 07-0503-005, #1), from *Zenaida macroura*, UM Campus, Ann Arbor, Washtenaw Co., Michigan, USA (42°16'46"N, 83°44'19"W).

*Neharpyrhynchus agelaius* **Bochkov, OConnor & Klompen, 2015: 103**—Holotype female (UMMZ, BMOC 09-0701-022, #1), from *Agelaius phoeniceus*, Oakland Co., Michigan, USA.

*Neharpyrhynchus bombycilla* **Bochkov, OConnor & Klompen, 2015: 98**—Holotype female (UMMZ, BMOC 08-01110-002, #1), from *Bombycilla cedrorum*, US route 31, Muskegon State game Area, Muskegon Co., Michigan, USA (43°17'46"N, 86°04'01"W).

*Neharpyrhynchus campylorhynchus* **Bochkov, OConnor & Klompen, 2015: 88**—Holotype female (OSAL, 0083261), from *Campylorhynchus brunneicapillus*, USA.

*Neharpyrhynchus picidarum* **Bochkov, OConnor & Klompen, 2015: 90**—Holotype female (UMMZ, BMOC 07-0409-003, #1), from *Colaptes auratus*, Pontiac, Oakland Co., Michigan, USA (42°36'40"N, 83°17'16"W).

*Neharpyrhynchus quisqualis* **Bochkov, OConnor & Klompen, 2015: 99**—Holotype female (UMMZ, BMOC 09-0910-002, #1), from *Quiscalus quiscula*, 1.3 mi E Big Rapids, Mecosta Co., Michigan, USA (43°41'55"N, 85°27'27"W).

*Neharpyrhynchus spizella* **Bochkov, OConnor & Klompen, 2015: 106**—Holotype female (UMMZ, BMOC 11-0317-002, #1), from *Spizella passerine*, Whitefish Point Bird Observatory, Chippewa Co., Michigan, USA (46°39'04"N, 85°02'20"W).

*Neharpyrhynchus turdus* **Bochkov, OConnor & Klompen, 2015: 93**—Holotype female (UMMZ, BMOC 10-0316-001, #1), from *Turdus migratorius*, 4.4 mi ESE Saline, Washtenaw Co., Michigan, USA (42°09'22"N, 83°43'05"W).

*Neharpyrhynchus vireo* **Bochkov, OConnor & Klompen, 2015: 104**—Holotype female (OSAL, 0079454), from *Vireo olivaceus*, Leon Co., Florida, USA (30°29'24"N, 84°12'36"W).

*Perharpyrhynchus caprimulgus* **Bochkov & Klompen, 2014a: 313**—Holotype female (OSAL, 0083703), from *Caprimulgus fossii*, Mozambique (19°52'48"S, 34°36'00"E).

*Perharpyrhynchus charadrius* **Bochkov, OConnor & Klompen, 2015: 81**—Holotype female (UMMZ, BMOC 09-0408-001, #1), from *Charadrius vociferous*, UM campus, Ann Arbor, Washtenaw Co., Michigan, USA (42°16'46"N, 83°44'19"W).

*Perharpyrhynchus elseyornis* **Bochkov & Klompen, 2014a: 315**—Holotype female (OSAL, 0083216), from *Elsayornis melanops*, Brooking Springs, Western Australia, Australia (18°07'12"S, 125°34'48"E).

*Trichorhynchiella myiarchus* **Bochkov & Klompen, 2014a: 305**—Holotype female (OSAL, 0083898), from *Myiarchus crinitus*, an unknown locality, North America.

Family Syringophilidae (32 species)

*Apodisyringiana hirundapi* **Skorack, Kaszewska & Kavetska, 2015: 584**—Holotype female (AMU), from *Hirundapus caudacutus*, Yokohama, Japan.

*Aulonastus pterotochos* **Sikora, Kaszewska & Skoracki, 2014: 425**—Holotype female (AMU), from *Pterotochos tarnii*, Valdivia, Chile (39°49'S, 73°14'W).

*Gunabopicobia masalaje* **Kaszewska, Kavetska & Skoracki, 2014: 294**—Holotype female (AMU, Reg. No. AMU-SYR.489), from quill of body feathers of *Ptilinopus iozonus*, Papua New Guinea.

*Krantziaulonastus dubinini* **Skoracki & Sikora, 2014: 198**—Holotype female (ZISP, Reg. No. ZISP-AVB-011-2908-069), from *Passer domesticus*, Suvorov, Tula district, Russia.

*Megasyringophilus cacatua* **Glowska & Laniecka, 2013: 390**—Holotype female (ZIZMUH), from *Cacatua galerita*, Mount Hart, Australia.

*Neoaulonastus apalis* **Klimovičová, Mikula, Kahure & Hromada, 2014: 573**—Holotype female (AMU, Reg. No. AMU-SYR.474), from *Apalis porphyrolaema*, Nyandarua, Kenya (0°44'58.84"S, 36°40'56.68"E).

*Neoaulonastus granatina* **Skoracki, Hromada & Unsoeld, 2013: 376**—Holotype female (AMU, Reg. No. AMU-SYR.383), from quill of body feathers of *Granatina ianthinogaster*, Simangiro, Tanzania.

*Neoaulonastus quelea* **Skoracki, Hromada & Unsoeld, 2013: 372**—Holotype female (AMU, Reg. No. AMU-SYR.386), from quills of body feathers of *Quelea quelea*, Usa-River, Arusha, Tanzania.

*Neoaulonastus tanzanicus* **Skoracki, Hromada & Unsoeld, 2013: 369**—Holotype female (AMU, Reg. No. AMU-SYR.385), from quills of body feathers of *Euplectes axillaris*, Usa-River, Arusha, Tanzania.

*Neosyringophilopsis lybidus* **Skoracki, Klimovičová, Muchai & Hromada, 2014: 184**—Holotype female (AMU, Reg. No. AMU-SYR.444), from quill of wing-covert feathers of *Pogoniulus bilineatus*, W. Naro Moru, Ewaso Ng'iro River, Kenya.

*Peristerophila lature* **Kaszewska, Kavetska & Skoracki, 2014: 297**—Holotype female (AMU, Reg. No. AMU-SYR.503), from *Ducula luctuosa*, Sulawesi Island, Indonesia.

*Peristerophila upupi* **Klimovičová, Mikula, Kahure & Hromada, 2014: 575**—Holotype female (AMU, Reg. No. AMU-SYR.476), from *Upupa epops*, Nyahururu, Kenya (0°0'37.69"S, 36°22'48.89"E).

*Phipicobia pygiptilae* **Glowska & Schmidt, 2014b: 196**—Holotype female (USNM), from quills of body feathers of *Pygiptila stelleris*, Upper Rewa River, Upper Takutu-Upper Essequibo, Guyana.

*Picineoaulonastus pogoniulus* **Skoracki, Klimovičová, Muchai & Hromada, 2014: 180**—Holotype female (AMU, Reg. No. AMU-SYR.442), from quill of wing covert of *Pogoniulus bilineatus*, North Nandi Forest, Kenya.

*Picobia myiopagi* **Glowska & Milensky, 2014: 381**—Holotype female (USNM), from quills of body feathers of *Myiopagis gaimardii*, Upper Rewa River, Upper Takutu-Upper Essequibo, Guyana.

- Picobia ochoi* Glowska & Milensky, 2014: 374**—Holotype female (USNM), from quills of body feathers of *Tolmomyias sulphureus*, ca. 19 km N, Mt. Holitipu, Paruima, Cuyuni-Mazaruni, Guyana.
- Picobia passeri* Skoracki & Sikora, 2014: 195**—Holotype female (ZISP, Reg. No. ZISP-AVB-011-2908-068), from *Passer domesticus*, Suvorov, Tula district, Russia.
- Picobia sayornis* Glowska, 2014: 140**—Holotype female (USNM), from quill of body feathers of the black phoebe *Sayornis nigricans*, El Caucho Biological Station, Tumbes, Peru.
- Picobia schmidtii* Glowska & Milensky, 2014: 378**—Holotype female (USNM), from quills of body feathers of *Lophotriccus pileatus*, El Caucho Biological Station, Tumbes, Peru.
- Pipicobia terpsiphoni* Glowska & Schmidt, 2014a: 59**—Holotype female (USNM), from quill of body feathers of black-headed paradise-flycatcher *Terpsiphone rufiventer*, NW corner of N'dogo Lagoon, Moukalaba-Doudou National Park), Ogooue, Maritime Province, Gabon.
- Rafapicobia milenskyi* Glowska & Schmidt, 2014b: 200**—Holotype female (USNM), from quill of body feathers of *Conopophaga aurite*, Upper Rewa River, Upper Takutu-Upper Essequibo, Guyana.
- Rafapicobia thamnophili* Glowska & Schmidt, 2014b: 198**—Holotype female (USNM), from quills of body feathers of *Thamnophilus insignis*, Paruima, Cuyuni-Mazaruni, Guyana.
- Syringophiloidus apus* Skorack, Kaszewska & Kavetska, 2015: 585**—Holotype female (AMU), from *Apus melba*, Valdivia, Chile.
- Syringophiloidus furthi* Glowska & Schmidt, 2014a: 61**—Holotype female (USNM), from coverts of black-headed paradise-flycatcher *Terpsiphone rufiventer*, Ogooue Maritime Province, NW corner of N'dogo Lagoon, Moukalaba-Doudou National Park, Gabon.
- Syringophilopsis pari* Skoracki & Mironov, 2013: 559**—Holotype female (ZISP-AVB 011-2908-051), from secondary of *Poecile palustris*, Novolitovsk, Partizanskii District, Primorsky Krai, Russia (42°51'40"N, 132°53'5.5"E).
- Syringophilopsis philemonis* Glowska & Laniecka, 2013: 386**—Holotype female (ZIZMUH), from *Philemon citreogularis*, Beagle Bay, Australia.
- Syringophiloidus picidus* Skoracki, Klimovičová, Muchai & Hromada, 2014: 184**—Holotype female (AMU, Reg. No. AMU-SYR.445), from quill of secondary feather of *Dendropicos fuscescens*, Mutanda, Kenya.
- Syringophiloidus quetzali* Skoracki, Mironov & Unsoeld, 2013: 292**—Holotype female (AMU), from secondary covert quill of *Pharomachrus mocinno*, Guatemala.
- Syringophilopsis szeffleri* Glowska, 2014: 142**—Holotype female (USNM), from the scale-crested pygmy-tyrant *Lophotriccus pileatus*, El Caucho Biological Station, Tumbes, Peru.
- Syringophiloidus teledromas* Sikora, Kaszewska & Skoracki, 2014: 420**—Holotype female (AMU), from *Teledromas fuscus*, Neuquén, Cipolletti, Rio Negro, Argentina (38°56'S, 67°59'W).
- Syringophilopsis trogoni* Skoracki, Mironov & Unsoeld, 2013: 295**—Holotype female (UNAM), from *Trogon citreolus*, Chamela Biological Station of UNAM, Jalisco, Mexico (19°29'52"N, 105°2'33"W).
- Torotroglia volgini* Skoracki & Mironov, 2013: 562**—Holotype female (ZISP-AVB 011-2908-052), from secondary of *Emberiza elegans*, Novolitovsk, Partizanskii District, Primorsky Krai, Russia (42°51'40"N, 132°53'5.5"E).

Superfamily **Pterygosomatoidea** (8 species)

Family **Pterygosomatidae** (8 species)

- Callopiestiella atacamensis* Silva-de la Fuente, Casanueva & Moreno, 2015 in Fuente, Paredes-León, Casanueva, Escobar-Huerta & Salas, 2015: 73**—Holotype female (MZUC, 40360), from *Callopiestes maculatus*, Atacama Region, Caldera, Copiapó Province, Chile (26°56'S, 70°44'W).
- Pterygosoma aqabensis* Fajfer & Melnikov, 2014: 404**—Holotype female (ZISP), from *Pseudotrapelus aqabensis*, Mecca, Saudi Arabia (21°22'N, 39°37'E).

*Pterygosoma dhofarensis* Fajfer & Melnikov, 2014: 409—Holotype female (ZISP), from *Pseudotrapelus dhofarensis*, Ayoon, Dhofar, Oman (17°15'N, 53°54'E).

*Pterygosoma engai* Fajfer, 2013: 272—Holotype female (ZMUC, R36435), from *Agama sankaranica*, Idanre, Ondo State, Nigeria.

*Pterygosoma fragilis* Fajfer, 2013: 260—Holotype female (ZMUC, R3669), from *Agama agama*, Bura Tana, Garissa County, Kenya.

*Pterygosoma garissi* Fajfer, 2013: 260—Holotype female (ZMUC, R3619), from *Agama agama*, Bura Tana, Garissa County, Kenya.

*Pterygosoma indare*, 2013: 278—Holotype female (ZMUC, R36424), from *Agama sankaranica*, Idanre, Ondo State, Nigeria.

*Pterygosoma olape*, 2013: 280—Holotype female (ZMUC, R36473), from *Agama sankaranica*, Idanre, Ondo State, Nigeria.

Superfamily **Raphignathoidea** (16 species)

Family **Camerobiidae** (5 species)

*Neophyllobius dogani* Khanjani & Hoseini, 2013: 522—Holotype female (BASU), from soil under *Astragalus* sp., Chaghlvandy, Lorrestan Province, Iran (33°46'09.79"N, 48°39'26.21"E).

*Neophyllobius edwardi* Khanjani & Hoseini, 2013: 514—Holotype female (BASU), from soil and rotten leaves of oak trees *Quercus brantii*, Sorkhi region, Koohmare, Fars Province, Iran (29°31'25"N, 52°12'14"E).

*Neophyllobius lorestanicus* Khanjani, Hoseini, Yazdanpanah & Masoudian, 2014: 450—Holotype female (BASU), from soil under of *Prunus domestica*, Sarcheshmahe village, Mahallate, Markazi Province, Iran (33°54'39.94"N, 50°27'10.15"E).

*Neophyllobius ostovani* Khanjani & Ahmad-Hoseini, 2014 in Khanjani, Hoseini, Yazdanpanah & Masoudian, 2014: 446—Holotype female (BASU), from soil and rotten leaves of oak trees, Sorkhi region, Koohmare, Fars Province, Iran (29°29'26"N, 52°11'1"E).

*Neophyllobius seemani* Khanjani & Hoseini, 2013: 518—Holotype female (BASU), from litter under oak trees, Nahavad, Hamedan Province, Iran (29°32'08"N, 52°13'02"E).

Family **Stigmaeidae** (11 species)

*Agistemus macrosetosus* Stathakis & Kapaxidi, 2014 in Stathakis, Kapaxidi & Papadoulis, 2014: 168—Holotype female (AUA), from *Rubus* sp., Kaiafas Lake, Co. Elia, Greece.

*Agistemus riograndensis* Johann & Ferla, 2013 in Johann, Carvalho, Majolo & Ferla, 2013: 248—Holotype female (MCN, CAS-03), from *Vitis vinifera*, Alfrocheiro cultivar, Candiota, state of Rio Grande do Sul, Brazil.

*Cheylstigmaeus tarae* Khanjani, 2014 in Khanjani, Nasrollahi, Zamani & Fayaz, 2014: 371—Holotype male (BASU), from soil and litter under pear trees, *Pyrus communis*, Yaghob Abad village, Baneh vicinity, Kurdistan Province, Iran (36°02' N, 45°44'E).

*Eustigmaeus tjumeniensis* Khaustov & Tolstikov, 2014: 539—Holotype female (TUMZ, NO.A310514), from *Plagiomnium cuspidatum* and *Brachythecium salebrosum*, vicinities of lake Kuchak, Tyumen Province, Russia (57°21'18"N, 66°03'01"E).

*Mediolata ronaldi* Laniecka, 2013 in Ripka, Laniecka & Kazmierski, 2013: 42—Holotype deutonymph (AMU, AK H-128), from *Tilia tomentosa*, Borsod-Abaúj-Zemplén County, Széphalom, Hungary.

*Paravillersia jamaliensis* Khaustov, 2014: 67—Holotype female (TUMZ, EB030814), from mosses on fen, vicinity of settlement Katravozh, Priuralskiy Region, Yamalo-Nenets Autonomous Okrug, Russia (66°19'40"N, 66°05'60"E).

*Stigmaeus delaramae* Khanjani, 2014 in Khanjani, Nasrollahi, Zamani & Fayaz, 2014: 374—Holotype female (BASU), from soil and litter under pear trees, *Pyrus communis*, Baneh vicinity, Yaghob Abad village, Kurdistan Province, Iran (36°02'N, 45°44'E).

*Stigmaeus kuznetsovi* Khaustov, 2014: 241—Holotype female (TUMZ, AK090495), from the nest of *Microtus socialis*, Yalta mountain pasture, Crimea, Ukraine.



*Stigmaeus mitrofanovi* Khaustov, 2014: 241—Holotype female (TUMZ, AK190897), from the galleries of bark beetle *Pityogenes bistridentatus*, under the bark of *Pinus pallasiana*, Yalta mountain pasture, Crimea, Ukraine.

*Stigmaeus silvestris* Khaustov, 2014: 246—Holotype female (TUMZ, AK110201), from rotten log of pine, *Pinus pallasiana*, Nikita mountain pasture, Crimea, Ukraine.

*Zetzellia ampelae* Johann & Ferla, 2013 in Johann, Carvalho, Majolo & Ferla, 2013: 253—Holotype female (MCN, CAS-12), from *Vitis vinifera*, Bordeaux cultivar, Boqueirão do Leão, state of Rio Grande do Sul, Brazil.

Superfamily **Tetranychioidea** (32 species)

Family **Allochaetophoridae** (1 species)

*Allochaetophora iranica* Mahdavi & Asadi, 2015b: 363—Holotype female (SBUK), from *Phragmites australis*, Manujan (Rozeye Eram)-Kerman Province, Iran (27°19'N, 57°30'E).

Family **Tenuipalpidae** (26 species)

*Amblypalpus iraniensis* Farzan, Asadi & Ueckermann, 2013 in Farzan, Asadi, Ueckermann, Seeman & Beard, 2013: 56—Holotype female (SBUK), from *Amygdalus scoparia*, Dalfard, Jiroft-Kerman Province, Iran (28°58'N, 57°37'E).

*Amblypalpus thymus* Farzan, Asadi & Ueckermann, 2013 in Farzan, Asadi, Ueckermann, Seeman & Beard, 2013: 62—Holotype female (SBUK), from *Thymus vulgaris*, Kuhpayeh, Kerman Province, Iran.

*Brevipalpus azores* Beard & Ochoa, 2015 in Beard, Ochoa, Braswell & Bauchan, 2015: 7—Holotype female (USNM, #75-8887), from lemon, Azores, Portugal.

*Brevipalpus feresi* Ochoa & Beard, 2015 in Beard, Ochoa, Braswell & Bauchan, 2015: 16—Holotype female (PEU), from *Croton floribundus*, São Paulo, Rio Petro, Brazil.

*Brevipalpus ferraguti* Ochoa & Beard, 2015 in Beard, Ochoa, Braswell & Bauchan, 2015: 21—Holotype female (MNCN), from “Ngaio”, *Myoporum laetum*, Valencia, Spain.

*Brevipalpus noranae* Halawa & Fawzy, 2014: 88—Holotype female (ARC-PPRI), from *M. alus domestica* and *Citrus aurantium* as mixed plantations, in Moshtohor village, Tukh district, Qalyubia Province, Egypt (30°21'18"N, 31°13'30"E).

*Brevipalpus tucuman* Beard & Ochoa, 2015 in Beard, Ochoa, Braswell & Bauchan, 2015: 43—Holotype female (USNM), from *Citrus sinensis* and *C. latifolia*, Argentina.

*Chaudhripalpus costacola* Beard & Seeman, 2014 in Beard, Seeman & Bauchan, 2014: 15—Holotype female (QM), from *Casuarina cristata*, Newell Highway, approx. 15 km N Moree, 86 km S Goondiwindi, New South Wales, Australia (29°21'20"S, 150°00'24"E).

*Crossipalpus gersoni* Beard & Seeman, 2014 in Beard, Seeman & Bauchan, 2014: 36—Holotype female (QM), from stems of *Allocasuarina luehmannii*, old Marlborough-Sarina Road, Mount Slopeaway, Queensland, Australia (22°52'16"S, 149°50'28"E).

*Crossipalpus raveni* Beard & Seeman, 2014 in Beard, Seeman & Bauchan, 2014: 44—Holotype female (QM), from *Allocasuarina inophloia*, 90 km W Moonie, Moonie Highway, Queensland, Australia (27°56'57"S, 149°31'19"E).

*Magdalenapalpus caperatus* Beard & Seeman, 2014 in Beard, Seeman & Bauchan, 2014: 56—Holotype female (MAGNT), from *Casuarina equisetifolia*, Nightcliffe Boat Ramp, Darwin, Northern Territory, Australia (12°22'46"S, 130°50'34"E).

*Magdalenapalpus forsteri* Seeman & Beard, 2014 in Beard, Seeman & Bauchan, 2014: 62—Holotype female (QM), from *Allocasuarina torulosa*, “Toondahra”, base of Mt Lorna, SSW Mundubbera, Australia (25°59'15"S, 151°21'26"E).

*Palpipalpus hesperius* Beard & Seeman, 2014 in Beard, Seeman & Bauchan, 2014: 81—Holotype female (WAM), from *Allocasuarina* sp., Walpole Yacht Club, Coalmine Beach, Nornalup Inlet, Walpole, Western Australia, Australia (34°59'27"S, 116°44'22"E).

*Pentamerismus hicklingorum* Seeman & Beard, 2014 in Beard, Seeman & Bauchan, 2014: 104—Holotype female (QM), from *Casuarina equisetifolia*, Bayside Drive, Beachmere, Southeast Queensland, Australia (27°05'52"S, 153°05'21"E).

*Pentamerismus sititoris* Beard & Seeman, 2014 in Beard, Seeman & Baughan, 2014: 89—Holotype female (QM), from *Casuarina cristata*, approx. 15 km N Moree, 86 km S Goondiwindi, Newell Highway, New South Wales, Australia (29°21'20"S, 150°00'24"E).

*Pentamerismus wardo* Seeman & Beard, 2014 in Beard, Seeman & Baughan, 2014: 97—Holotype female (WAM, BRI voucher, BRI [AQ814925]), from *Allocasuarina scleroclada*, approx. 3 km N Coomberdale, along Moora-Watheroo Road, Western Australia, Australia (30°24'17"S, 116°02'29"E).

*Philippipalpus belah* Beard & Seeman, 2014 in Beard, Seeman & Baughan, 2014: 121—Holotype female (QM), from *Casuarina cristata*, approx. 15 km N Moree, 86 km S Goondiwindi, Newell Highway, New South Wales, Australia (29°21'20"S, 150°00'24"E).

*Philippipalpus flumaquercus* Beard & Seeman, 2014 in Beard, Seeman & Baughan, 2014: 116—Holotype female (QM), from *Casuarina cunninghamiana*, Didcot Creek, 3 km ENE Didcot, nr Biggenden, Queensland, Australia (25°27'54"S, 151°53'47"E).

*Philippipalpus nigraquercus* Seeman & Beard, 2014 in Beard, Seeman & Baughan, 2014: 124—Holotype female (QM), from *Allocasuarina littoralis*, Mugga Lane, Canberra, Symonston, Australian Capital Territory, Australia (35°23'05"S, 149°08'10"E).

*Prolixus meyeræ* Xu & Zhang, 2014: 2—Holotype female (NZAC), from Alice Eaves Reserve, Orewa, Auckland, New Zealand.

*Tenuipalpus apichai* Castro & Feres, 2013: 483—Holotype female (PEU, NO. 8942), from *Celtis iguanae*, São José do Rio Preto, São Paulo State, Brazil (20°46'S, 49°15'W).

*Tenuipalpus bacuri* Flechtmann & Noronha, 2013: 496—Holotype female (ESALQ), from *Platonia insignis*, Embrapa-Amazonia Oriental, Belém, Pará, Brazil.

*Tenuipalpus nambii* Castro & Feres, 2013: 485—Holotype female (PEU, NO. 8947), from *Sterculia striata*, São João de Iracema, São Paulo State, Brazil (20°28'S, 50°17'W).

*Terminalichus sanya* Xu & Fan, 2014 in Xu, Fan & Huang, 2014: 235—Holotype female (NZMC), from *Terminalia catappa*, Egret Park, Fenghuang Road, Sanya city, Hainan Province, China (18°14'54.12"N, 109°30'57.82"E).

*Tenuipalpus tapiæ* Castro & Feres, 2013: 483—Holotype female (PEU, NO. 8935), from *Alchornea glandulosa*, Estação Ecológica de Paulo de Faria, Paulo de Faria, São Paulo State, Brazil (19°55'S, 49°31'W).

*Ultratenuipalpus avarua* Xu, Fan & Zhang, 2013: 224—Holotype female (NZAC), from *Cocos* sp., Avarua, Rarotonga, Cook Islands, New Zealand.

#### Family Tetranychidae (5 species)

*Petrobia (Tetranychina) hispaniola* Sánchez & Flechtmann, 2014 in Martínez, Flechtmann & De Moraes, 2014: 554—Holotype female (ESALQ/USP), from *Citrus sinensis*, Río Seco, La Vega, Dominican Republic (Caribbean).

*Schizotetranychus krungthepensis* Naing & Auger, 2014 in Naing, Chandrapatya, Navajas & Auger, 2014: 258—Holotype male (KUB), from *Saccharum officinarum*, Ram Intra, Bangkok, Thailand.

*Sonotetranychus menziesii* Yi & Zhang, 2013: 335—Holotype female (NZAC, 03-359 Z-A), from *Nothofagus menziesii*, Golden Bay, Mt Stevens Takaka, New Zealand.

*Tetranychus (Tetranychus) occultaspina* Naing & Auger, 2014 in Naing, Chandrapatya, Navajas & Auger, 2014: 263—Holotype male (KUB), from *Ipomoea aquatic*, Kasetsart University campus, Khet Bangkhen, Bangkok, Thailand.

*Tetranychus (Tetranychus) truncatissimus* Naing & Auger, 2014 in Naing, Chandrapatya, Navajas & Auger, 2014: 269—Holotype male (KUB), from *Bambusa multiplex*, Khet Chatuchak, Bangkok, Thailand.

#### Hyporder Heterostigmata (20 species)

#### Superfamily Pygmephoroidae (16 species)

#### Family Pygmephoridae (6 species)

*Pediculaster ermilovi* Khaustov, 2015g: 419—Holotype female (TUMZ, AK151114), from the rotten log of poplar (*Populus nigra*), Tyumen, Tyumen Province, Russia (57°09'52.3"N, 65°31'01.6"E).

*Pediculaster lignarius* Khaustov, 2015g: 425—Holotype female (TUMZ, AK170514), from the rotten log of birch (*Betula pendula*), vicinity of Tyumen, Tyumen Province, Russia (57°09'50.5"N, 65°27'24.2"E).

*Pseudopygmephorellus mazandaranicus* Katlav & Hajiqanbar, 2015 in Katlav, Hajiqanbar & Talebi, 2015: 106—Holotype female (TUMZ, AK-20130318-H), from beetle *Onthophagus* sp., cow-pads in Dohezar Forest, Tonekabon town, west of Mazandaran Province, Iran (36°39'N, 50°40'E).

*Pseudopygmephorellus troxi* Khaustov & Trach, 2014: 92—Holotype female (NBG, VT220890/P), from *Trox cadaverinus*, Bamburovo vill., ca. 50 km SWW Vladivostok, ca 10 km NW Slavyanka, Primorye, Far East, Russia.

*Zambedania argentiniana* Camerik & Magowsk, 2014: 89—Holotype female (ZIZMUH), from *Stenoterommata platensis*, Parque Urugua-I, Prov. Misiones 16, Argentina.

*Zambedania madagascariana* Camerik & Magowsk, 2014: 88—Holotype female (NHMG), from Sainte Marie, Madagascar.

#### Family Scutacaridae (7 species)

*Scutacarus crinitus* Khaustov, 2015d: 274—Holotype female (TUMZ, AK170914), from ants *Lasius niger*, vicinity of Tyumen, Tyumen Province, Russia (57°13'43.6"N, 65°28'28.4"E).

*Scutacarus heterotrichus* Khaustov, 2015a: 355—Holotype female (TUMZ, AK150515), from the nest of *Lasius flavus*, vicinity of lake Kuchak, Tyumen Province, Russia (57°20'13.9"N, 66°03'30.4"E).

*Scutacarus insolitus* Khaustov, 2015a: 352—Holotype female (TUMZ, AK240815/1), from the nest of *Lasius flavus*, vicinity of Tyumen, Tyumen District, Tyumen Province, Russia (57°09'50.4"N, 65°27'26.7"E).

*Scutacarus lasiophilus* Khaustov, 2015d: 267—Holotype female (TUMZ, VS300714), from ants *Lasius niger*, vicinity of settlement Narimanovo, Tyumen region, Tyumen Province, Russia (57°21'56"N, 65°08'21"E).

*Scutacarus moseri* Khaustov, 2015a: 350—Holotype female (TUMZ, AK240815), from the nest of *Lasius flavus*, vicinity of Tyumen, Tyumen District, Tyumen Province, Russia (57°09'50.4"N, 65°27'26.7"E).

*Scutacarus myrmicinus* Khaustov, 2015d: 272—Holotype female (TUMZ, VS300714A), from the nest of *Myrmica ruginodis*, vicinity of settlement Narimanovo, Tyumen region, Tyumen Province, Russia (57°21'56"N, 65°08'21"E).

*Scutacarus sibiriensis* Khaustov, 2015a: 358—Holotype female (TUMZ, VS030814), from the nest of *Lasius flavus*, vicinity of settlement Kazanskoye, Kazanskiy District, Tyumen Province, Russia (55°37'21.1"N, 69°22' 17.7"E).

#### Family Neopygmephoridae (3 species)

*Petalomium crossi* Khaustov, 2015f: 554—Holotype female (TUMZ, NO. AP051214), from ant *Myrmicaria distincta*, coast of lake Tana, territory of the Bahir Dar Fisheries and other Aquatic Life Research Center, Bahir Dar city, Amhara Region, Ethiopia (11°36.70'N, 037°22.36'E).

*Petalomium reductus* Khaustov, 2015f: 555—Holotype female (TUMZ, NO. AP051214/1), from ants *Myrmicaria distincta*, coast of lake Tana, territory of the Bahir Dar Fisheries and other Aquatic Life Research Center, Bahir-Dar city, Amhara Region, Ethiopia (11°36.70'N, 037°22.36'E).

*Troxodania magnifica* Khaustov & Trach, 2014: 89—Holotype female (NBG, NO.VT220890), from *Trox cadaverinus*, Bamburovo vill., ca. 50 km SWW Vladivostok, ca. 10 km NW Slavyanka, Primorye, Far East, Russia.

#### Superfamily Tarsocheyloidea (1 species)

##### Family Tarsocheylidae (1 species)

*Hoplocheylus magnificus* Khaustov, 2015e: 286—Holotype female (ZISP, AY051014), from the nest of the ant *Formica rufa*, spruce forest, vicinity of settlement Shatrovo, Shatrovskiy district, Kurgan Province, Russia (56°30'1.95"N, 64°38'53.76"E).

#### Superfamily Tarsonemoidea (3 species)

##### Family Tarsonemidae (3 species)

***Daidalotarsonemus annonae* Sousa, Lofego & Gondim, 2014: 430**—Holotype female (UNESP, NO. 9226), from *Annona coriacea*, Goiana, State of Pernambuco, Brazil (7°38'16.08"S, 34°57'9.41"W).

***Fungitarsonemus setillus* Sousa, Lofego & Gondim, 2014: 438**—Holotype female (UNESP, NO. 9228), from *Annona muricata*, Goiana, State of Pernambuco, Brazil (7°38'16.08"S, 34°57'9.41"W).

***Kaliszewskia ochoai* Lofego, Demite & de Moraes, 2015: 567**—Holotype female (PEU, NO. 9515), from *Plinia* sp., Serra do Conduru, Uruçuca, Bahia State, Brazil.

## Acknowledgments

We thank Wendy Lam (University of Auckland) and Editor Dr Qing-Hai Fan (Ministry for Primary Industries, Auckland, New Zealand) for reviewing this manuscript and providing comments. Z.-Q. Zhang's research on New Zealand mites was supported mainly by Core Funding for Crown Research Institutes from the Ministry of Business, Innovation and Employment's Science and Innovation Group.

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